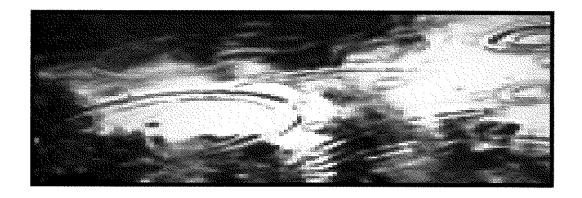
Stormwater Management Program 2017 Annual Report for March 10, 2017 through March 9, 2018

The Town of East Fishkill MS4 SPDES No. NYR20A183

330 Route 376
Hopewell Junction
Dutchess County, New York

April 13, 2018



Prepared by:

Stormwater Management Consultants, Inc.

P.O. Box 202 LaGrangeville, New York 12540 (845) 462-0022

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- 6. RESPONSE TO PUBLIC COMMENTS

SPDES General Permit for Stormwater Discharges from Small MS4's, Permit No. GP-0-15-003
Town of Fishkill Stormwater Management Program Annual Report

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1. MS4 ANNUAL REPORT COVER PAGE

MS4 Annual Report Cover Page

MCC form for period ending March 9, 2 0 1 8

This cover page must be completed by the report preparer. Joint reports require only one cover page.

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Choose one:

This report is being submitted on behalf of an individual MS4.

Fill in SPDES ID in upper right hand corner.

Name of MS4		
Town of	E a s t F i s h	k i 1 1

OR

O This report is being submitted on behalf of a Single Entity

(Per Part II.E of GP-0-10-002)

Name	of Singl	e Er	itity										

OR

○ This is a joint report being submitted on behalf of a coalition.

Provide SPDES ID of each permitted MS4 included in this report. Use page 2 if needed.

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MS4 Annual Report Cover Page

MCC form for period ending March 9, 2 0 1 8

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2. MS4 MUNICIPAL COMPLIANCE CERTIFICATION (MCC) FORM

MCC form for period ending March 9, 2 0 1 8

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Each MS4 must submit an MCC form.									
Section 1 - MCC Identification Page									
Indicate whether this MCC form is being submitted to certify endorsement or ac	ссер	otan	ce c	of:					
 An Annual Report for a single MS4 									
○ A Single Entity (Per Part II.E of GP-0-10-002)									
○ A Joint Report									
Joint reports may be submitted by permittees with legally binding	g ag	gree	mei	nts.					
If Joint Report, enter coalition name:									
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MCC form for period ending March 9, 2 0 1 8

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Section 2 - Contact Information

Important Instructions - Please Read

Contact information must be provided for <u>each</u> of the following positions as indicated below:

- 1. Principal Executive Officer, Chief Elected Official or other qualified individual (per GP-0-08-002 Part VI.J).
- 2. Duly Authorized Representative (Information for this contact must only be submitted if a Duly Authorized Representative is signing this form)
- 3. The Local Stormwater Public Contact (required per GP-0-08-002 Part VII.A.2.c & Part VIII.A.2.c).
- 4. The Stormwater Management Program (SWMP) Coordinator (Individual responsible for coordination/implementation of SWMP).
- 5. Report Preparer (Consultants may provide company name in the space provided).

A separate sheet must be submitted for each position listed above unless more than one position is filled by the same individual. If one individual fills multiple roles, provide the contact information once and check all positions that apply to that individual.

If a new Duly Authorized Representative is signing this report, their contact information must be provided and a signature authorization form, signed by the Principal Executive Officer or Chief Elected Official must be attached.

For each contact, select all that apply:

- Principal Executive Officer/Chief Elected Official
- O Duly Authorized Representative
- Local Stormwater Public Contact
- O Stormwater Management Program (SWMP) Coordinator
- Report Preparer

First Name	MI	Last Name
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Town Supervisor		
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MCC form for period ending March 9, 2 0 1 8

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- O Principal Executive Officer/Chief Elected Official
- O Duly Authorized Representative
- O Local Stormwater Public Contact
- Stormwater Management Program (SWMP) Coordinator
- Report Preparer

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Title		
SWMPCoordinator	/ C	C P E S C / C M S 4 S
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MCC form for period ending March 9, 2 0 1 8

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Section 4 - Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

This form must be signed by either a principal executive officer or ranking elected official, or duly authorized representative of that person as described in GP-0-08-002 Part VI.J.

First Name	MI	Last Name
N i c h o l a s		D Allessandro
Title (Clearly print title of individual signing report)		
Town Supervissor		
Signature		Date / / /

Send completed form and any attachments to the DEC Central Office at:

MS4 Permit Coordinator Division of Water 4th Floor 625 Broadway Albany, New York 12233-3505

3. WATER QUALITY TRENDS

This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

SPDES ID

Name of MS4/Coalition TOWN OF EAST FISHKILL

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4. MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ANNUAL REPORT FORM

This report is being submitted for the reporting period ending March 9, $\begin{bmatrix} 2 & 0 \end{bmatrix}$ 1 8

Name of MS4/Coalition TOWN OF EAST FISHKILL	SPDES ID N Y R 2 0 A 1 8 3
Minimum Control Measure 1. Public Ed	ducation and Outreach
The information in this section is being reported (check one): On behalf of an individual MS4 On behalf of a coalition How many MS4s contributed to this report?	
1. Targeted Public Education and Outreach Best Managen	nent Practices
Check all topics that were included in Education and Outreach	during this reporting period:
Construction Sites	 Pesticide and Fertilizer Application
 General Stormwater Management Information 	Pet Waste Management
 Household Hazardous Waste Disposal 	Recycling
• Illicit Discharge Detection and Elimination	 Riparian Corridor Protection/Restoration
Infrastructure Maintenance	● Trash Management
Smart Growth	Vehicle Washing
○ Storm Drain Marking	Water Conservation
• Green Infrastructure/Better Site Design/Low Impact Development	Wetland Protection
• Other:	○ None
Septic Maintenance Other	
2. Specific audiences targeted during this reporting period:	:
Public Employees Contractors	
Residential Developers	
Businesses General Public	
○ Restaurants • Industries	
Other: • Agricultural	and the second to the second t
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This report is being submitted for the reporting period ending March 9, 2 0 1 8

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This report is being submitted for the reporting period ending March 9, 2 0 1 8

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Name of MS4/Coalition TOWN OF EAST FISHKILL N N	ES ID (R 2 0 A 1 8 3
4. Evaluating Progress Toward Measurable Goals MCM 1	
Use this page to report on your progress and project plans toward achieving medidentified in your Stormwater Management Program Plan (SWMPP), including III.C.1. Submit additional pages as needed.	-
A. Briefly summarize the Measurable Goal identified in the SWMPP in th	is reporting period.
 Target specified audience for development of educational brochures. Continue to provide educational brochures to residential and commercial pr Maintain public educational billboard campaign. Provide contractor training sessions by DCSWCD. Provide stormwater educational information on Town website 	operty owners.
B. Briefly summarize the observations that indicated the overall effectiven Goal.	ess of this Measurable
Attendance at presentations/training sessions and quality and quantity of educa distributed are consistent with previous reporting period.	tional brochures
C. How many times was this observation measured or evaluated in this rep	porting period?
	(ex.: samples/participants/ev
D. Has your MS4 made progress toward this Measurable Goal during this	
E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?	• Yes O No
F. Briefly summarize the stormwater activities planned to meet the goals of the next reporting cycle (including an implementation schedule).	of this MCM during
1. Develop new target audience for educational brochures and continue to pro-	vide previous

educational brochures developed to residential and commercial property owners, contractors and

2. Continue to maintain educational billboard campaign and educational material on Town website.

developers, landscape contractors, etc.

(See Implementation Schedule on following page)

TOWN OF EAST FISHKILL SWMP IMPLEMENTATION SCHEDULE

MMI: PUBLIC EDUCATION AND OUTREACH

- Develop target audiences for educational brochures as a combined effort with the Dutchess County Regulated MS4 Coordination Committee.
- Continue to distribute educational brochures previously developed to residential and commercial property owners, developers and contractors, landscape contractors, etc.
- Develop phosphorus reduction related educational information and brochures specifically targeted to East of Hudson NYC Watershed residential and commercial property owners.
- The Town of East Fishkill SWMP Coordinator will provide updates on the Town of East Fishkill SWMP to the Town of East Fishkill Town Board as warranted. Town of East Fishkill residents are typically in attendance.
- Maintain tracking method for number of educational brochures distributed and locations where brochures have been distributed.
- Continue to provide stormwater educational materials on the Town of East Fishkill website.
- Continue public educational billboard campaign throughout Dutchess County.
- Continue to provide educational material to public on septic system maintenance.

This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

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Name of MS4/Coalition TOWN OF EAST FISHKILL						N	Y	R	2	0	А	1	8	3
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The information in this section is being reported (che	ck one):													
 On behalf of an individual MS4 On behalf of a coalition How many MS4s contributed to this 	-		***************************************	•										
1. What opportunities were provided for pub development, evaluation and improvement (SWMP) Plan during this reporting period	of the Stor	mw	ate	r N	Iai	ıag					ran	n		
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● Other: F i s h k i l l C r e e	k Wa	t	е	r	s	h	е	d	<u> </u>	А	s	ន	0	С
2. Was public notice of availability of this and Program (SWMP) Plan provided?	iual report	an	d S	tor	mw	ato	er N	Лa	nag		ent Ye		O	No
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This report is being submitted for the reporting period ending March 9, 2 0 1 8
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Name of MS4/Coalition TOWN OF EAST FISHKILL

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9, $2 \mid 0 \mid 1 \mid 8$

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This report is being submitted for the reporting period ending March 9, 2 0 1 8

	SPDES ID
Name of MS4/Coalition TOWN OF EAST FISHKILL	N Y R 2 0 A 1 8 3
4.a. If this report was made available on the internet, what date v	was it posted?
Leave blank if this report was not posted on the internet.	
4.b. For how many days was/will this report be posted?	3 6 5
If submitting a report for single MS4, answer 5.a If submitting	a joint report, answer 5.b
5.a. Was an Annual Report public meeting held in this reporting	period? • Yes O No
If Yes, what was the date of the meeting?	0 5 / 2 5 / 2 0 1 7
If No, is one planned?	● Yes ○ No
5.b. Was an Annual Report public meeting held for all MS4s con	tributing to this report during
this reporting period?	○ Yes ○ No
If No, is one planned for each?	○ Yes ○ No
6. Were comments received during this reporting period? If Yes, attach comments, responses and changes made to SWMP in response to comments to this report.	● Yes ○ No

This report is being submitted for the reporting period ending March 9, 2 0 1 8

	SPDES ID
Name of MS4/Coalition TOWN OF EAST FISHKILL	N Y R 2 0 A 1 8 3
7. Evaluating Progress Toward Measurable Goals MCM 2	
Use this page to report on your progress and project plans toward identified in your Stormwater Management Program Plan (SWMIII.C.1. Submit additional pages as needed.	= -
A. Briefly summarize the Measurable Goal identified in the S	WMPP in this reporting period.
 Strengthen partnerships with local watershed groups and coming. Work with volunteer groups to encourage public participation. Provide public educational material on Town website. 	
B. Briefly summarize the observations that indicated the over Goal.	all effectiveness of this Measurable
The number of events conducted and the number of attendees paractivities is consistent with the previous reporting period.	rticipating in events and volunteer
C. How many times was this observation measured or evaluate	ted in this reporting period? 1 0 (ex.: samples/participants/events.
D. Has your MS4 made progress toward this measurable goal	during this reporting period?
	● Yes ○ No
E. Is your MS4 on schedule to meet the deadline set forth in t	he SWMPP? ● Yes ○ No
F. Briefly summarize the stormwater activities planned to me the next reporting cycle (including an implementation sche	eet the goals of this MCM during
 Expand partnerships and activities with local watershed group Solicit volunteer groups to participate in the SWMP. Continue to provide public educational material on Town web (See Implementation Schedule on following page) 	
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TOWN OF EAST FISHKILL SWMP IMPLEMENTATION SCHEDULE

MM2: PUBLIC INVOLVEMENT/PARTICIPATION

- Expand partnerships and activities with local watershed groups and committees.
- Solicit volunteer groups and the Town of East Fishkill Conservation Board to participate in the Town of East Fishkill SWMP.
- As a member of the Dutchess County Regulated MS4 Coordination Committee the Town of East Fishkill will continue to participate with committee sponsorships to stakeholders.
- The Town of East Fishkill SWMP Coordinator will provide updates on the Town of East Fishkill SWMP to the Town of East Fishkill Town Board as warranted. Town of East Fishkill residents are typically in attendance.
- The Town of East Fishkill SWMP Annual Report will be made available to the public at the Town Clerk's office and on the Town of East Fishkill website.
- Maintain tracking method for number of activities conducted and number of attendees participating.
- Continue to provide stormwater educational materials on the Town of East Fishkill website.

This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

SPDES ID

Name of MS4/Coalition TOWN OF EAST FISHKILL	N Y R 2 0 A 1 8 3
Minimum Control Measure	3. Illicit Discharge Detection and Elimination
The information in this section is being repor	rted (check one):
 On behalf of an individual MS4 On behalf of a coalition How many MS4s contributed 	to this report?
1. Enter the number and approx. perc	ent of outfalls mapped: 203#100%
2. How many of these outfalls have be reporting period (outfall reconnaiss	en screened for dry weather discharges during this ance inventory)?
3.a. What types of generating sites/sewe reporting period?	rsheds were targeted for inspection during this
O Auto Recyclers	○ Landscaping (Irrigation)
O Building Maintenance	○ Marinas
○ Churches	Metal Plateing Operations
O Commercial Carwashes	Outdoor Fluid Storage
O Commercial Laundry/Dry Cleaners	O Parking Lot Maintenance
 Construction Vehicle Washouts 	O Printing
○ Cross-Connections	Residential Carwashing
O Distribution Centers	○ Restaurants
○ Food Processing Facilities	○ Schools and Universities
○ Garbage Truck Washouts	 Septic Maintenance
O Hospitals	○ Swimming Pools
O Improper RV Waste Disposal	O Vehicle Fueling
O Industrial Process Water	O Vehicle Maint./Repair Shops
• Other: R e s i d e n t i a 1 ,	○ None / C o m m e r c i a l P r o p e r t y
• Sewersheds: NYCEOHWate	shed/Hillside Lake

This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

	SI DES ID
Name of MS4/Coalition TOWN OF EAST FISHKILL	N Y R 2 0 A 1 8 3
3.b. What types of illicit discharges have	been found during this reporting period?
O Broken Lines From Sanitary Sewer	O Industrial Connections
O Cross Connections	○ Inflow/Infiltration
○ Failing Septic Systems	O Pump Station Failure
O Floor Drains Connected To Storm Sewers	○ Sanitary Sewer Overflows
O Illegal Dumping	○ Straight Pipe Sewer Discharges
Loomboon Looks Looks Looks Looks Looks Looks Looks Looks Looks Looks Looks Looks Looks Looks Looks Looks Looks	O None g e n t / O i 1 L e a k al illegal connections have been detected during this
reporting period?	
5. How many illicit discharges have been	en confirmed during this reporting period?
6. How many illicit discharges/illegal coperiod?	onnections have been eliminated during this reporting
7. Has the storm sewershed mapping be If No, approximately what percent was	
8. Is the above information available in	GIS? ● Yes ○ No
Is this information available on the valid Yes, provide URL(s):	web? ○ Yes • No
	where map(s) can be accessed - not home page.
URL	

This report is being submitted for the reporting period ending March 9, $\begin{bmatrix} 2 & 0 \end{bmatrix}$ 1

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This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

	 SP	DES	, ID						
Name of MS4/Coalition TOWN OF EAST FISHKILL	N	Y	R	2	0	А	1	8	3

12. Evaluating Progress Toward Measurable Goals MCM 3

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

- 1. Enforcement of IDDE ordinance as warranted
- 2. Conduct required dry weather screening of outfalls.
- 3. Illicit Discharge Detection & Elimination Hotline Incident Tracking Sheet utilized.
- 4. Continue to implement SSDS pump-out and inspection ordinance.
- 5. Public Illicit Discharge Form maintained on Town website.

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

100% of residents located in the NYC Watershed have been notified of the SSDS pump-out and inspection ordinance to include follow up mailings. Approximately 40% of the residents located in the NYCEOH Watershed have completed their SSDS pump-out and inspection and provided the appropriate information to the Town.

C	How many	times wa	s this obs	ervation	measured	or eval	nated in	this r	enorting	period?
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D. Has your MS4 made progress toward this measurable goal during this reporting period?

● Yes ○ No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

● Yes ○ No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

- 1. Additional public education measures relative to the hazards associated with illicit discharges.
- 2. Dry weather inspections of outfalls & development of permit mapping requirements.
- 3. Continue to identify and eliminate illicit discharges to the MS4 & conduct IDDE training for staff
- 4. Continue to monitor residential septic pump out & inspections in EOH Watershed. (See Implementation Schedule on following page)

TOWN OF EAST FISHKILL SWMP IMPLEMENTATION SCHEDULE

MM3: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

- Continue to provide educational brochures to residential and commercial property owners on the hazards associated with Illicit Discharges to the MS4.
- Continue to conduct and document dry weather inspections of outfalls.
- Conduct a training session for Town of East Fishkill staff and employees on IDDE procedures.
- Refine mapping as defined in SPDES MS4 General Permit No. GP-0-15-003 in addition to East of Hudson NYC Watershed requirements.
- Implement and enforce ordinance and program that ensures that on-site sanitary systems are inspected at a minimum frequency of once every five (5) years and where necessary, maintained or rehabilitated of properties located in the East of Hudson NYC Watershed.
- Continue to identify and eliminate illicit discharges to the MS4 through enforcement measures as contained in the Town of East Fishkill Code "Illicit Discharge Detection and Elimination" as warranted.
- Maintain tracking method for number outfall inspections and number of illicit discharges detected, identified and eliminated.
- Utilize the Town of East Fishkill IDDE Hotline Incident Tracking Sheet for potential reported illicit discharges.
- Continue to provide educational material to public on septic system maintenance.
- Maintain the Town of East Fishkill Stormwater Hotline.

This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

	SPDES ID
Name of MS4/Coalition TOWN OF EAST FISHKILL	N Y R 2 0 A 1 8 3

Minimum Control Measures 4 and 5

	Construction Site and Post-Construction Control
The	e information in this section is being reported (check one):
	On behalf of an individual MS4 On behalf of a coalition How many MS4s contributed to this report?
1a.	Has each MS4 contributing to this report adopted a law, ordinance or other regulatory mechanism that provides equivalent protection to the NYS SPDES General Permit for Stormwater Discharges from Construction Activities? • Yes • No
1b.	Has each Town, City and/or Village contributing to this report documented that the law is equivalent to a NYSDEC Sample Local Law for Stormwater Management and Erosion and Sediment Control through either an attorney cerfification or using the NYSDEC Gap Analysis Workbook? • Yes • No • NT
	If Yes, Towns, Cities and Villages provide date of equivalent NYS Sample Local Law. ○ 09/2004 ● 03/2006 ○ NT
2.	Does your MS4/Coalition have a SWPPP review procedure in place? • Yes O No
3.	How many Construction Stormwater Pollution Prevention Plans (SWPPPs) have been reviewed in this reporting period?
4.	Does your MS4/Coalition have a mechanism for receipt and consideration of public comments related to construction SWPPPs? • Yes • No • NT
	If Yes, how many public comments were received during this reporting period?
5.	Does your MS4/Coalition provide education and training for contractors about the local SWPPP process? • Yes O No

6. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:

Notices of Violation	#		1	2	No Authority
Stop Work Orders	#			6	O No Authority
O Criminal Actions	#				O No Authority
O Termination of Contracts	#				O No Authority
○ Administrative Fines	#				O No Authority
O Civil Penalties	#				O No Authority
Administrative Orders	#				O No Authority
O Enforcement Actions or Sanctions	#				
O Other	#				O No Authority

This report is being submitted for the reporting period ending March 9, 2 0 1 8

Nar	me of MS4/Coalition TOWN OF EAST FISHKILL SPDES ID N Y R 2 0 A 1 8 3
	Minimum Control Measure 4. Construction Site Stormwater Runoff Control
The	e information in this section is being reported (check one):
	On behalf of an individual MS4 On behalf of a coalition How many MS4s contributed to this report?
1.	How many construction projects have been authorized for disturbances of one acre or more during this reporting period?
2.	How many construction projects disturbing at least one acre were active in your jurisdiction during this reporting period?
3.	What percent of active construction sites were inspected during this reporting period? \bigcirc NT $\boxed{1\ 0\ 0\ \%}$
4.	What percent of active construction sites were inspected more than once? ONT 1 0 0 %
5.	Do all inspectors working on behalf of the MS4s contributing to this report use the NYS Construction Stormwater Inspection Manual? • Yes ONO ONT
6.	Does your MS4/Coalition provide public access to Stormwater Pollution Prevention Plans (SWPPPs) of construction projects that are subject to MS4 review and approval? • Yes O NO O NT
	If your MS4 is Non-Traditional, are SWPPPs of construction projects made available for public review? O Yes O No
	If Vestuse the following page to identify location(s) where SWPPPs can be accessed

Name of MS4/Coalition

MS4 Annual Report Form

This report is being submitted for the reporting period ending March 9, 2 0 1 8 If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

TOWN OF EAST FISHKILL

SPDES ID

N Y R 2 0 A 1 8 3

6.	6. con't.: Submit additional pages as needed.																														
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MCM 4 Page 2 of 3

This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

			SPL	DES	ID						
Name of MS4/Coalition TOWN	OF EAST FISHKILL	* commence of sector	N	Y	R	2	0	А	1	8	3

7. Evaluating Progress Toward Measurable Goals MCM 4

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

- 1. Town staff/consultant training on General Construction Permit requirements.
- 2. Better Site Design and Green Infrastructure training session to town staff/Board members.
- 3. Contractor training sessions conducted by DCSWCD.
- 4. Diligent stormwater construction compliance inspections and enforcement by Town.
- 5. Training for Stormwater Management Officers.

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

Increased awareness of Town staff/consultants re: Better Site Design principles, Low Impact Development measures and techniques and Green Infrastructure. As a result of contractor training sessions and increased stormwater compliance inspections by the Town, it has been observed that construction sites have improved their implementation of erosion and sediment control measures and BMPs.

C. How many times was this observation measured or eva	aluated in this reporting period?	
	5	2

(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

● Yes ○ No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

● Yes ○ No

F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).

- 1. Continue to provide Town staff/Board member training sessions on Better Site Design, Low Impact Development, Green Infrastructure and General Construction permit requirements.
- 2. Continue to provide contractor training sessions & SMO Training Session.
- 3. SWPPP reviews and stormwater compliance inspections in accordance with GP-0-15-002. (See Implementation Schedule on following page)

TOWN OF EAST FISHKILL SWMP IMPLEMENTATION SCHEDULE

MM4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

- Continue to conduct contractor training sessions through the efforts of the Dutchess County Soil & Water Conservation District (DCSWCD).
- The Town of East Fishkill SWMP Coordinator (CPESC, CPMSM) will conduct a SMO Training Session.
- The Town of East Fishkill will continue to conduct reviews of Stormwater Pollution Prevention Plans (SWPPPs) in strict accordance with the permit requirements of SPDES General Construction Permit GP-0-15-002 and the technical standards thereof, the "New York State Standards and Specifications for Erosion and Sediment Control" and the "New York State Stormwater Design Manual" in addition to the MS4 requirements as defined in SPDES General Permit GP-0-15-003.
- The Town of East Fishkill will implement a mechanism for "stormwater credits" in accordance with NYSDEC guidelines if applicable.
- The Town of East Fishkill will continue to acknowledge public input into SWPPPs during the Planning Board application review process.
- The Town of East Fishkill will continue to conduct diligent construction stormwater compliance inspections and environmental monitor inspections of active construction sites in the Town of East Fishkill.
- The Town of East Fishkill will continue to enforce construction site violations in accordance with the Code of the Town of East Fishkill, "Stormwater Management and Erosion and Sediment Control."
- Maintain a tracking method for number of SWPPPs reviewed and approved; the number of construction stormwater compliance inspections, and the number and type of enforcement actions undertaken.

This report is being submitted for the reporting period ending March 9, $\begin{bmatrix} 2 & 0 \end{bmatrix}$ 1 $\begin{bmatrix} 8 & 1 \end{bmatrix}$

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

Name of MS4/Coalition	TOWN OF EAST FI	SHKILL		SPDES ID N Y R	2 0 A 1 8 3
Minimum (Control Mea	sure 5. Post	-Constructio	on Stormwater N	<u> 1anagement</u>
1. How many and	lividual MS4 lition lany MS4s cont what type of po	ributed to this i	report?	nagement practices eporting period?	has your
		# Inventoried	# Inspections	# Times Maintained	
O Alternative Practic	es	Attendance of an effective front around a second and an effective front an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front and an effective front		100 Medical participants and second processing and second processi	
O Filter Systems					
• Infiltration Basins		2 2	2 2	1 8	
Open Channels		3 0	3 0	2 2	
Ponds		3 2	3 2	2 3	
○ Wetlands					
Other					
2. Do you use an one BMPs, inspection3. What types of a Development/B	ons and maint non-structural	anance? practices have	e been used to	implement Low In	○ Yes • No
Building Codes		Comprehensive P	_	-	
Overlay Districts	• Open Space	Preservation Pro	ogram		
Zoning	• Local Law o	or Ordinance			
○ None	Land Use R	egulation/Zoning	j		
O Watershed Plans	Other Comp	rehensive Plan			
Other:					

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e s e n t a t i o n s

Board

Members

This report is being submitted for the reporting period ending March 9, $2 \mid 0 \mid 1 \mid 8$

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Nan	ne of MS4/Coalition TOWN OF EAST FISHKILL	N	YR	2	0 7	A 1	8	3
4a.	. Are the MS4s contributing to this report involved in a regional/wat	ershed v	wide planning effort? Yes No ent practices? Yes No etocol for evaluation anagement practice? Yes No eart of this system in this olementation attended					
4b.	. Does the MS4 have a banking and credit system for stormwater ma	nageme	nt pra	etic	es?			
					Ο,	Yes	• 1	Vо
4c.	Do the SWMP Plans for each MS4 contributing to this report include and approval of banking and credit of alternative siting of a stormy	~			t pra	etice	?	40
4d.	. How many stormwater management practices have been implemen reporting period?	ted as p	art of	this	syste	em ir	1	
5.	What percent of municipal officials/MS4 staff responsible for progretraining on Low Impace Development (LID), Better Site Design (BS Infrastructure principles in this reporting period?	-				tend	· · · · · · · · · · · · · · · · · · ·	%

This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

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Name of MS4/Coalition TOWN OF EAST FISHKILL	N	Y	R	2	0	A	1	8	3

6. Evaluating Progress Toward Measurable Goals MCM 5

Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.

A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.

- 1. Implement Retrofit Plan for phosphorus reduction as per EOH permit requirements.
- 2. Better Site Design and Green Infrastructure training session to town staff/Board members.
- 3. Contractor training sessions conducted by DCSWCD.
- 4. Detailed review of SWPPP post-construction permanent stormwater management facilities and development of maintenance and easement agreements.

B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.

Increased awareness by Town staff/consultants of Better Site Design principles, Low Impact Development measures and techniques and Green Infrastructure to include inspection and maintenance requirements.

Retrofit Plan for phosphorus reduction as per EOH permit requirements developed in compliance with permit requirements.

C.	How man	y times was	s this observ	vation measu	red or eval	luated in	this reporting	period?
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(ex.: samples/participants/events)

D. Has your MS4 made progress toward this measurable goal during this reporting period?

● Yes ○ No

E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?

● Yes ○ No

- F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).
- 1. Continue to provide Better Site Design, Low Impact Development and Green Infrastructure training sessions to town staff/Board members.
- 2. Continue to implement Retrofit Plan in accordance with NYCEOH and NYSDEC permit requirements.

(See Implementation Schedule on following page)

TOWN OF EAST FISHKILL SWMP IMPLEMENTATION SCHEDULE

MM5: POST-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

- The Town of East Fishkill SWMP Coordinator (CPESC, CPMSM) will conduct a SMO Training Session.
- The Town of East Fishkill will continue to conduct reviews of Stormwater Pollution Prevention Plans (SWPPPs) in strict accordance with the permit requirements of SPDES General Construction Permit GP-0-15-002 and the technical standards thereof, the "New York State Standards and Specifications for Erosion and Sediment Control" and the "New York State Stormwater Design Manual" in addition to the MS4 requirements as defined in SPDES MS4 General Permit GP-0-15-003.
- The Town of East Fishkill will implement a mechanism for "stormwater credits" in accordance with NYSDEC guidelines if applicable.
- The Town of East Fishkill has developed a "Stormwater Management Facilities Maintenance Agreements" and "Stormwater Management Facilities inspection and Maintenance Easements" for permanent post-construction stormwater management facilities that will continue to be implemented
- The Town of East Fishkill will continue to maintain an inventory of permanent post-construction stormwater management facilities to include periodic inspection and maintenance of the facilities.
- Maintain a tracking method of permanent post-construction stormwater management facilities inspection and maintenance activities.
- The Town of East Fishkill will implement its Retrofit Plan in accordance with the East of Hudson NYC Watershed requirements.

This report is being submitted for the reporting period ending March 9, $\begin{bmatrix} 2 & 0 \end{bmatrix}$ 1 $\begin{bmatrix} 8 & 1 \end{bmatrix}$

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

		SPD	ES,	ID)			,			w
Name of MS4/Coalition	TOWN OF EAST FISHKILL	N	Υ	R	2	0	A	1	8	3

Minimum Control Measure 6. Stormwater Management for Municipal Operations

The information in this section is being reported (check one):	
 On behalf of an individual MS4 On behalf of a coalition 	
How many MS4s contributed to this report?	

1. Choose/list each municipal operation/facility that contributes or may potentially contribute Pollutants of Concern to the MS4 system. For each operation/facility indicate whether the operation/facility has been addressed in the MS4's/Coalition's Stormwater Management Program(SWMP) Plan and whether a self-assessment has been performed during the reporting period. A self-assessment is performed to: 1) determine the sources of pollutants potentially generated by the permittee's operations and facilities; 2) evaluate the effectiveness of existing programs and 3) identify the municipal operations and facilities that will be addressed by the pollution prevention and good housekeeping program, if it's not done already.

Self-Assessment Operation/Activity/Facility performed within the past 3 Addressed in SWMP? Operation/Activity/Facility vears? Street Maintenance..... • Yes ○ No • Yes O No ● No ○ Yes Bridge Maintenance. No Winter Road Maintenance..... • Yes ○ No • Yes O No O No Salt Storage..... • Yes ○ No • Yes Solid Waste Management..... • Yes ○ No • Yes O No New Municipal Construction and Land Disturbance.. • Yes ○ No • Yes \bigcirc No Right of Way Maintenance..... • Yes ○ No • Yes ● No ○ Yes Marine Operations..... © Yes No ● No ○ Yes Hydrologic Habitat Modification..... ○ Yes O No ○ No • Yes Parks and Open Space..... Yes ○ No Municipal Building..... • Yes ○ No • Yes ○ No O No ○ No • Yes Stormwater System Maintenance..... • Yes Vehicle and Fleet Maintenance..... 9 Yes ○ No • Yes O No ● No ○ Yes Other..... O Yes No

This report is being submitted for the reporting period ending March 9, 2 0 1 8

	SEDE2 ID				
Name of MS4/Coalition TOWN OF EAST FISHKILL	N Y R 2	0 A	1	8 3	3
2. Provide the following information about municipal operations go	od housekeep	oing pr	rogr	ams	š:
O Parking Lots Swept (Number of acres X Number of times swept)	# Acres			(0
• Streets Swept (Number of miles X Number of times swept)	# Miles		2	1 (0
 Catch Basins Inspected and Cleaned Where Necessary 	#		5	7 5	5
 Post Construction Control Stormwater Management Practices Inspected and Cleaned Where Necessary 	#			8 4	1
O Phosphorus Applied In Chemical Fertilizer	# Lbs.		A CONTRACTOR OF THE PARTY OF TH	(С
O Nitrogen Applied In Chemical Fertilizer	# Lbs.			(0
O Pesticide/Herbicide Applied (Number of acres to which pesticide/herbicide was applied X Number times applied to the nearest tenth.)	of # Acres			•	The second second
3. How many stormwater management trainings have been provide during this reporting period?	d to municipa	al emp	loye		3
4. What was the date of the last training?	1 0 / 1 8	1 2	0	1 7	7
5. How many municipal employees have been trained in this report	ing period?			2 8	3
6. What percent of municipal employees in relevant positions and d stormwater management training?	epartments r	eceive	0	0 %	6

This report is being submitted for the reporting period ending March 9, 2 0 1 8

If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blank.

SPDES ID
Name of MS4/Coalition TOWN OF EAST FISHKILL NYR20A183
7. Evaluating Progress Toward Measurable Goals MCM 6
Use this page to report on your progress and project plans toward achieving measurable goals identified in your Stormwater Management Program Plan (SWMPP), including requirements in Part III.C.1. Submit additional pages as needed.
A. Briefly summarize the Measurable Goal identified in the SWMPP in this reporting period.
 Continued inspection and maintenance of conveyance systems within the MS4. Identify facilities or operations in need of modification, improvement or replacement. Prioritize good housekeeping efforts based upon geographic and/or priority areas of concern. Provide Municipal Operations/Good Housekeeping training session to municipal employees.
B. Briefly summarize the observations that indicated the overall effectiveness of this Measurable Goal.
Ongoing inspection and maintenance of conveyance systems and cleaning of catch basins has improved water quality and drainage conditions.
Provided Municipal Operations/Good Housekeeping training session to municipal employees.
C. How many times was this observation measured or evaluated in this reporting period?
. 1 2
(ex.: samples/participants/e D. Has your MS4 made progress toward this measurable goal during this reporting period? • Yes • No
E. Is your MS4 on schedule to meet the deadline set forth in the SWMPP?
● Yes ○ No F. Briefly summarize the stormwater activities planned to meet the goals of this MCM during the next reporting cycle (including an implementation schedule).
 Continue street sweeping program, conveyance system inspection and maintenance and catch basin cleaning program. Incorporate Green Infrastructure in upgrades of conveyance system if applicable to the MEP.

(See Implementation Schedule on following page)

TOWN OF EAST FISHKILL SWMP IMPLEMENTATION SCHEDULE

MM6: POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

- Conduct a training session for Town of East Fishkill staff and employees on Pollution Prevention/Good Housekeeping for Municipal Operations.
- The Town of East Fishkill Highway Department will continue to inspect, maintain and/or repair the MS4 conveyance system.
- The Town of East Fishkill Highway Department will continue an annual catch basin cleaning program.
- The Town of East Fishkill Highway Department will continue an annual street sweeping program.
- The Town of East Fishkill will continue to implement its road maintenance plan.
- The Town of East Fishkill Highway Department will continue to maintain municipal operations and facilities.
- The Town of East Fishkill will consider and incorporate cost effective runoff reduction techniques and green infrastructure in the routine upgrade of the existing stormwater conveyance systems and municipal operations to the maximum extent practicable (MEP).
- The Town of East Fishkill will develop and implement a turf management practices and procedures policy in accordance with the East of Hudson NYC Watershed requirements.
- Maintain a tracking method for the number of training sessions for municipal employees and attendance.
- Maintain a tracking method for the acres of parking lots swept, miles of streets swept, number of catch basins inspected and maintained, post-construction stormwater management facilities inspected and maintained, etc.

This report is being submitted for the reporting period ending March 9, 2 0 1 8

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Name of MS4/Coalition TOWN OF EAS	TFISHKILL		N	Y	R	2	0 F	1 1	8	3
Traile of this is Courtion.		J	لتحسينا	L	L	L	<u>-</u>	4		4

The information in this section is being reported (check one	e):
 On behalf of an individual MS4 On behalf of a coalition How many MS4s contributed to this repor 	t? [

MS4s must answer the question	s or check NA a	as indicated in the	table below.
-------------------------------	-----------------	---------------------	--------------

MS4 Description	Answer	Check NA	(POC)
NYC EOH Watershed	who will be a second and the second	***************************************	-
Traditional Land Use	1,2,3,4,5,6,7a-d,8a,8b,9	10,11,12	Phosphorus
Traditional Non-Land Use	1,2,3,4,7a-d,8a,8b,9	5,10,11,12	Phosphorus
Non-Traditional	1,2,77a-d,8a,8b,9	3,4,5,10,11,12	Phosphorus
Onondaga Lake Watershed	-	~	_
Traditional Land Use	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Traditional Non-Land Use	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Non-Traditional	1,6,7a-d,8a,9	2,3,4,5,8b,10,11,12	Phosphorus
Greenwood Lake Watershed	-		
Traditional Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Traditional Non-Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Non-Traditional	1,4,6,7a-d,8a,9	2,3,5,86,10,11,12	Phosphorus
Oyster Bay	-	-	-
Traditional Land Use	1,4,7a-d,9,10,11,12	2,3,5,6,8a,8b	Pathogens
Traditional Non-Land Use	1,4,7a-d,9,10,11,12	2,3,5,6,8a,8b	Pathogens
Non-Traditional	1,4,7a-d,9	2,3,4,5,8a,8b,10,11,12	Pathogens
Peconic Estuary	-	-	-
Traditional Land Use	1,4.7a-d,8a,9,10,11,12	2,3,5,6,8b	Pathogens and Nitrogen
Traditional Non-Land Use	1,4,7a-d,8a,9,10,11,12	2,3,5,6,8b	Pathogens and Nitrogen
Non-Traditional	1,4,7a-d,8a,9	2,3,4,5,8b,10,11,12	Pathogens and Nitrogen
Oscawana Lake Watershed		-	-
Traditional Land Use	1,4,6,7a-d,8a,9	2,3,5,86,10,11,12	Phosphorus
Traditional Non-Land Use	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
Non-Traditional	1,4,6,7a-d,8a,9	2,3,5,8b,10,11,12	Phosphorus
LI 27 Embayments	-		-
Traditional Land Use	1,2,3,4,7a-d,9,10,11,12	5,6,8a,8b	Pathogens
Traditional Non-Land Use	1,2,3,4,7a-d,9,10,11,12	5,6,8a,8b	Pathogens
Non-Traditional	1,2,3,4,7a-d,9	5.6,8a,8b,10,11,12	Pathogens

L	Non-Traditional 1,2,3,4,/a-d,9	5.6.8a.8b.10.11.12	Pathogens	
1.	. Does your MS4/Coalition have an education pr phosphorus/nitrogen/pathogens on waterbodies	-	es ○No	○ N/A
2.	. Has 100% of the MS4/Coalition conveyance sys		es O No	O NUA
	If N/A, go to question 3.	₩ Ye	S ⊖ No	∪ N/A
	If No, estimate what percentage of the conveyance	e system has been mapped so fa	r.	%
	Estimate what percentage was mapped in this repo	orting period.		%

This report is being submitted for the reporting period ending March 9, 2 0 1 8

				SP.	DES ID		
Na	me of MS4/Coalition TOWN	OF EAST FISHKILL		N	T T T	0 A 1	. 8 3
3.	Does your MS4/Coal and Maintenance Pla		vater Conveyanc	e System (inf	rastructu • Yes	_	ection
4.	Estimate the percent and maintained or re	-				n inspec	
5.	Has your MS4/Coalid NYSDEC SPDES Ge (GP-0-08-001) to red disturb five thousand	neral Permit for St uce pollutants in sto	ormwater Discha ormwater runoff	arges from Co	onstructio	on Activ	ities
6.	Has your MS4/Coaling runoff from new development to one acre that Permit for Stormwatthe New York State Standards?	elopment and redev t provides equivale er Discharges from	velopment project nt protection to to Construction Ac	ets that distur the NYS DEC ctivities (GP-	b greater CSPDES (0-08-001)	than or General , includi	•
7a	a. Does your MS4/Coal phosphorus/nitrogen		* *	reduce erosio	on or • Yes	○ No	O N/A
7b	o. How many projects l	ave been sited in tl	his reporting per	iod?			0
7c	e. What percent of the	projects included in	1 7b have been co	ompleted in th	his report	ing peri	od?
7d	d. What percent of proj	ects planned in pre	evious years have	e been comple		1	0 %
8a	a.Has your MS4/Coalit procedures policy the lands?				ent pract icipally o		Planned
8 t	o.Has your MS4/Coali procedures policy the municipally owned la	at addresses proper					○ N/A

This report is being submitted for the reporting period ending March 9, $\begin{bmatrix} 2 & 0 \end{bmatrix}$ 1 $\begin{bmatrix} 8 & 1 \end{bmatrix}$

Name of MS4/Coalition TOWN OF EAST FISHKILL	N Y R 2 0	A 1 8 3
9. Has your MS4/Coalition developed and implemented a		g? No ○ N/A
10. Has your MS4/Coalition enacted a local law prohibitin prohibiting goose feeding?		roperties and No • N/A
11. Does your MS4/Coalition have a pet waste bag program	m? • Yes •	No ● N/A
12. Does your MS4/Coalition have a program to manage g populations?		No ● N/A

SPDES General Permit for Stormwater Discharges from Small MS4's, Permit No. GP-0-15-003 Town of East Fishkill Stormwater Management Program Annual Report
5. HILLSIDE LAKE (303d) EVALUATION AND ASSESSMENT

Hillside Lake: 303(d) Impaired Waterbody

Evaluation and Assessment:

Hillside Lake, located in the Town of East Fishkill is designated as a 303(d) impaired water body by the New York State Department of Environmental Conservation (NYDEC) and the Environmental Protection Agency (EPA) due to water qualitative issues, particularly associated with high nutrient loading. As per the NYSDEC and the EPA, the Pollutant of Concern (POC) for Hillside Lake is phosphorus. Phosphorus pollution may come from various sources such as failing on-site individual wastewater treatment systems (WTS) aka as subsurface sewage disposal systems (SSDS), agricultural runoff, fertilizers, manure, decomposing leaves, other natural sources, pet waste, detergents, and urban runoff. As per the NYSDEC and the EPA specific to Hillside Lake, the POC being phosphorus is due to the discharge of on-site individual wastewater treatment systems (WTS) into Hillside Lake.

As part of the Town of East Fishkill's Stormwater Management Program (SWMP), Hillside Lake has been identified and designated one of many "geographic areas of concern" and "water bodies of concern" located within the Town of East Fishkill.

Given this designation the Town of East Fishkill has provided educational information and materials to the public over a number of years and has also involved the public in numerous duly noticed Public Hearings on issues associated with Hillside Lake and the "pollutants of concern".

The Town of East Fishkill has developed a Hillside Lake Rehabilitation Plan that is ongoing in its implementation. The Town of East Fishkill has identified potential stormwater pollutant reduction measures and has taken measures to ensure there is no net increase of the pollutant(s) of concern within the Hillside Lake Watershed on any potential project development plans submitted to the Planning Board for review and approval in accordance with requirements as set forth in the New York State Stormwater Management Design Manual.

The Town of East Fishkill has conducted sampling, testing and monitoring of Hillside Lake to include soil samples and samples from catch basins that ultimately discharge into Hillside Lake.

The Town of East Fishkill has been granted funds for the implementation of the Hillside Lake Rehabilitation Plan. After years of planning and attaining State Grants, the Hillside Lake Water Quality Improvement Project went out to bid, but is currently on hold pending the dissolution of the Lake District. The project, which is still planned to be completed, consists of the construction of an artificial wetlands in vicinity of the beach area, and the redirection of street drainage towards the wetland.

The Town of East Fishkill Highway Department also prioritizes the cleaning of catch basins and road maintenance within the Hillside Lake Watershed.

The Town of East Fishkill Highway Department has also been provided with a maintenance guideline for gravel roads by the NYSDEC entitled "U.S. Department of Transportation, Federal

Highway Administration, Gravel Roads Maintenance and Design Manual" to incorporate into their program.

Information on the Hillside Lake Water Quality Improvement Project may be found by going directly to the Town of East Fishkill website, or more specifically at the following URL address:

http://www.eastfishkillny.gov/Government/Hillside-Lake-Water-Quality-Improvement.htm

Additionally, the NYSDEC has announced a comprehensive seventy-five million (\$75,000,000) program to improve water quality through the targeted replacement of aging septic systems in communities across New York. Through a collaboration between the State Departments of Environmental Conservation and Health, and the Environmental Facilities Corporation, the State will support the new program in 31 counties with \$15 million its first year. Funds will be provided to counties to reimburse eligible property owners for a portion of the cost of replacing failing septic systems and installing more environmentally effective systems. In Dutchess County, seventy-five thousand (\$75,000) has been allocated for the first year of the program specifically for the priority waterbodies being Hillside Lake and Sylvan Lake. (Please see attached).

 It is noted that as per the NYSDEC, "man-made" lakes such as Hillside Lake are typically not eligible to be designated as 303(d) impaired waterbodies by the NYSDEC and/or the EPA. Further research and investigation into this matter is ongoing.

Walter Artus

Subject: FW: MakingWaves - HABs Summits, Septic Program, Pharmaceutical Take Back, Staff

Profile, Resilience Grants

Attachments: Septic System Replacement Priority Waterbody.pdf



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This Week's Updates:

- HABs Summits Announced
- Septic System Replacement Program
- Pilot Drug "Take-Back" Participants Announced
- Staff Profile Features Division of Water Employee
- NOAA Coastal Resilience Grants

Regional Harmful Algal Bloom Summits Announced

Governor Andrew M. Cuomo announced the dates and locations of four regional summits supporting the state's comprehensive effort to protect vulnerable lakes and waterbodies in Upstate New York from harmful algal blooms (HABs). The summits are part of the \$65 million four-point initiative unveiled in the Governor's 2018 State of the State to aggressively combat HABs.

Each of the four summits will include an evening session that is open to the public where background information about HABs will be provided. The sessions will include talks by experts, a panel discussion and an opportunity for local residents to share recommendations.

and ideas.

Summit Evening Session Dates and Locations:

- Mid-Hudson: Tuesday, February 27 from 6:00 PM 8:00 PM SUNY New Paltz Student Union Multi-Purpose Room, 2nd Floor, 1 Hawk Drive, New Paltz, NY 12561
- Central New York: Tuesday, March 6 from 6:00 PM 8:00 PM
 SUNY ESF Gateway Center Building, 1 Forestry Drive, Syracuse, NY 13210
- North Country: Tuesday, March 20 from 6:00 PM 8:00 PM
 Best Western Ticonderoga, 260 Burgoyne Road, Ticonderoga, NY 12883
- Western New York: Monday, March 26 from 6:00 PM 8:00 PM
 R. Thomas Flynn Campus Center, SUNY Monroe Community College, the Forum, 1000 East Henrietta Road, Rochester, New York 14623

Septic System Replacement Program

Governor Andrew M. Cuomo announced a comprehensive \$75 million program to improve water quality through the targeted replacement of aging septic systems in communities across New York. Through a collaboration between the State Departments of Environmental Conservation and Health, and the Environmental Facilities Corporation, the state will support the new program in 31 counties with \$15 million during its first year. Funds will be provided to counties to reimburse eligible property owners for a portion of the cost of replacing failing septic systems and installing more environmentally effective systems.

Second Round of Participants in Pilot Drug "Take-Back" Program Announced

<u>DEC announced</u> the second group of participants in the State's \$2 million Pilot Pharmaceutical Take-Back Program. Participants include 172 retail pharmacies, hospitals, and long-term care facilities across the state. Under the drug take-back program, DEC will purchase medication collection boxes and pay for the disposal of waste pharmaceuticals collected by participating facilities for two years. Implementation of this pilot program will help improve water quality, protect public health by removing medications from home medicine cabinets, and reduce potential adverse impacts to fish and aquatic organisms.

The pilot program is open and accepting new applications. Retail pharmacies, hospitals, and long-term care facilities are encouraged to enroll online at the <u>Pilot Pharmaceutical Take-Back</u> Program webpage.

"On the Front Lines" Staff Profile Features Division of Water Employee

DEC's new "On the Front Lines" staff profile features Division of Water Environmental Program Specialist Vince Spadaro. Vince works primarily on the State Pollutant Discharge Elimination System (SPDES) permit program,



County	Priority Waterbody	First Year Funding Allocation
Allegany Canacadea Creek, which is tributary to Almond Lake		\$75,000
Broome Park Creek and tributaries, Whitney Point Lake/Reservoir, Fly Pond, Deer and Sky Lakes		\$150,000
Cattaraugus	Allegany River/Reservoir	\$75,000
Cayuga	Cayuga, Owasco and Skaneateles Lakes	\$225,000
Chautauqua	Findley Lake	\$150,000
Chenango	Chenango and Guilford Lakes	\$150,000
Clinton	Upper Chateaugay Lake	\$75,000
Dutchess	Hillside and Sylvan Lakes	\$75,000
Essex	Lake Champlain/Willsboro Point	\$150,000
Genesee Bigelow Creek and tributaries, Tonawanda Creek - Middle, Main Stem, Black Creek - Middle, and minor tributaries		\$150,000
Herkimer North Winfield Creek and tributaries		\$75,000
Jefferson Moon and Red Lakes and Indian River		\$75,000
Livingston Conesus Lake		\$75,000
Monroe Irondequoit Bay and minor tributaries to Irondequoit Bay, Mill Creek and tributaries, Shipbuilders Creek and tributaries		\$150,000
Nassau	Sole Source Aquifer	\$1,000,000
Onondaga	Otisco and Skaneateles Lakes	\$225,000
Ontario Canadice, Canandaigua, Hemlock, Honeoye and Seneca Lakes		\$225,000
Oswego Lake Ontario		\$150,000
Otsego Goodyear Lake		\$75,000
Putnam Oscawana Lake		\$75,000
Saratoga Dwass Kill and tributaries		\$150,000
St. Lawrence Black Lake, St. Lawrence Main Stem, Little River and tributaries, Lower portion of Raquette River and Indian River		\$225,000
Schoharie	Summit Lake	\$75,000

Schuyler Lamoka and Waneta Lakes, Mill Pond		\$225,000
Seneca	Seneca and Cayuga Lakes	
Steuben Almond, Keuka and Waneta Lakes, Mill and Smith Ponds		\$75,000
Suffolk Sole Source Aquifer		\$10,025,000
Tompkins Cayuga Lake		\$150,000
Wayne Lake Ontario, Blind Sodus Bay		\$150,000
Wyoming Silver and Java Lakes		\$75,000
Yates Canandaigua, Keuka and Seneca Lakes		\$225,000
Total		\$15,000,000

SPDES General Permit for Stormwater Discharges from Small MS4's, Per	rmit No.	GP-0-15-003
Town of East Fishkill Stormwater Management Program Annual Report		

6

6. RESPONSE TO PUBLIC COMMENTS

Town of East Fishkill

MS4 SWMP

Public Comments and Response to Public Comments

Written comments:

Mr. Keith DeMaso:

Provided via email to the Town by Mr. Keith DeMaso May 10, 2017 (copy of original email attached)

Comment:

To All:

"On Friday May 05, 2017 we experienced a local rainstorm. Prior to the unanticipated need for a Hillside Lake (H.L.) valve to be opened for the second time with one month and a day, I became aware of the increase of storm water and sediment along with it, discharging into H.L. At approximately 12:45 PM that day, I called the Town of E. Fishkill, MS4 Stormwater Management Officer (SMO) Rick Croniser. I asked if he would take a look at two specific locations with storm water entering H.L. (817 N. Hillside Rd. & F/O 744 E. Hillside Rd.)

I awaited a call back since 5/05 and I decided to call him today (5/10/2017). After two of my attempts, I did receive a call back. Today in my telephone conversation with him, he assures me he did take a look and asked me "what do you want me to do?"

I am appalled the Town of E. Fishkill SMO did not know what a 303(d) Impaired Waterbody is. I do not mean this in a condescending manner but, how does one manage an "Automatic MS4 Regulated" municipality if one is not even educated in the law NYSDEC GP-0-15-001.

Perhaps ANY of you (subordinates) other than the Town Supervisor, have ever seen the doc attached "303(d) NYSDEC DIRECTIVE"? This is NOT the first **IGNORED** NYSDEC directive see attached "REMOVAL OF THE SEDIMENT (that NEVER happened). Today I asked the MS4 SMO if he filed a report of my complaint (ILLICIT DISCHARGE) of May 05, 2017 and July 07, 2015. HE DIDN'T KNOW WHAT I WAS TALKING ABOUT.

I would like this email to serve as my formal "Public Comment" for the Annual MS4 Report due on June 01, 2017 to NYSDEC".

Keith DeMaso

Response:

This office cannot address or specifically elaborate as a third party to any direct conversations between Mr. DeMaso and Mr. Croniser,), however Mr. DeMaso's comments are duly noted. This office can respond to Mr. DeMaso with respect to comments and documentation provided by Mr. DeMaso in addition to Town procedures and protocol relative to illicit discharges.

Mr. DeMaso cites an attached document as "303(d) NYSDEC Directive". Said document is a memorandum from the NYSDEC dated March 21, 2016 to former Supervisor Hickman regarding a MS4 Audit. (See attached) Mr. DeMaso states this memorandum was ignored and the Town did not respond to the NYSDEC, which is incorrect. In a memorandum from this office dated April 14, 2016 to the NYSDEC, the Town did in fact respond to all comments from the NYSDEC contained in their memorandum dated March 21, 2016 to include providing numerous attachments of Town documents, forms, etc. Said memorandum from this office was sent electronically to the Department in addition to hard copies mailed directly to the Department via Priority Mail. (See attached). It is also noted that this office has contacted the NYSDEC on numerous occasions to solicit a formal response in writing to the memorandum from this office dated March 21, 2016. To date, there has been no written response from the NYSDEC. However, based upon verbal discussions with the Department, these matters are resolved.

Mr. DeMaso also cites an attached document as "REMOVAL OF SEDIMENT". Said document is a memorandum from the NYSDEC to the former Supervisor and Town Board dated April 28, 2014 regarding Hillside Lake. (See attached). Mr. DeMaso states this memorandum was ignored, which is incorrect. In a memorandum from this office dated July 9, 2014 to the NYSDEC, the Town responded to all concerns contained in the April 28, 2014 memorandum from the NYSDEC. (See attached) To further elaborate, of specific and a major concern to the Town was a discharge of sediment from properties located on James Dorland Drive, ultimately discharging into Hillside Lake. Prior to the preparation of the above noted memorandum, two (2) site inspections were conducted by this office with Councilman Marinaro and the Town Engineer. Additionally, numerous meetings were conducted between the Town Engineer, the Town Supervisor, Councilman Marinaro, the Town Highway Superintendent, the Town Attorney and this office in an effort to remediate the sediment discharge into Hillside Lake from residential properties located on James Dorland Drive. Said meetings and discussions also resulted in the generation a memorandum from this office dated July 1, 2014 to the Town Engineer recommending various potential remediation measures and/or appropriate actions by the Town. (See attached). Based upon the efforts of the Town and the property owners over an extended period of time, this issue has been resolved and has adequately been remediated to the satisfaction of the Town and the NYSDEC.

With regard to Mr. DeMaso's "Illicit Discharge complaint", the Town has a procedure in place for the reporting of illicit discharges to include the detection of, and the elimination of illicit discharges. There is a "Town of East Fishkill Illicit Discharge Complaint Form" that is located on the Town website at http://www.eastfishkillny.gov/Pdf/Discharge-Report-Form.pdf for residents to fill out and submit to the Town of East Fishkill Building Department for the reporting of potential illicit discharges. (See attached) Additionally, once an illicit discharge is reported or detected it is recorded on the "Town of East Fishkill IDDE Hotline Incident Tracking Sheet". (See attached). The Town then follows protocol as warranted and outlined in the "Town of East Fishkill IDDE Program Procedures". This procedure should be followed for all potential illicit discharges reported to the Town, or those detected by the Town. (See attached).

Mr. DeMaso references the NYSDEC MS4 permit as permit # GP-0-15-001. For future reference, the most current NYSDEC MS4 permit is permit # GP-0-15-003.

Town Board Meeting Comments:

Town Board Meeting
Comments on Agenda Items Only
May 25, 2017

Mr. Keith DeMaso:

Comment:

Mr. DeMaso discussed in length the general designation of Hillside Lake as a 303(d) impaired waterbody. Mr. DeMaso cited the New York State Department of Environmental Conservation "Proposed Final 2016 Section 303(d) List" as attached to the Town of East Fishkill 2016/2017 Stormwater Management Program (SWMP) Annual Report. Mr. DeMaso further discussed the pollutant being phosphorus, and the source as noted in the New York State Proposed Final 2016 Section 303(d) List being onsite WTS (Wastewater Treatment Systems). Mr. DeMaso stated that failing or less than fully operational WTSs could be part of the problem. Mr. DeMaso informed the Town Board that there are numerous causes of phosphorus that may be discharged into a waterbody. Mr. DeMaso cited a report prepared for the Town in 1988 that based upon sampling, no coliform was found in any samples. Mr. DeMaso also cited a report prepared for the Town entitled "Hillside Lake Rehabilitation" noting the report notes that phosphorus may be caused by various sources to include animal waste, failing septic systems decaying vegetation and detergents. Mr. DeMaso stated that based upon field testing and infra-red photography, that there was no evidence of failing septic systems documented. Mr. DeMaso also discussed the New York State Proposed Final 2016 Section 303(d) public comment period. Mr. DeMaso noted the request for urban runoff to be included as a source of phosphorus to Hillside Lake.

Response:

Mr. DeMaso confirmed the attachment "New York State Department of Environmental Conservation Proposed Final 2016 Section 303(d) List" to the Town of East Fishkill 2016/2017 Stormwater Management Program (SWMP) Annual Report as phosphorus as the pollutant of concern, and said document noting onsite WTSs as the source of said pollutant. It shall be noted that the designation of 303(d) list impaired waterbodies, and the sources of pollutants thereof, is a collaborative effort between the New York State Department of Environmental Conservation (NYSDEC) and the Environmental Protection Agency (EPA). This designation is a complicated and complex process between the two (2) agencies. Mr. DeMaso is correct in pointing out to the Town Board that the discharge of phosphorus into waterbodies may be caused by various sources to include, but not limited to decaying vegetation, failing septic systems, animal wastes, detergents, etc. With regard to Mr. DeMaso's statement that no test results exist of failing septic systems, testing performed by the Town of East Fishkill in February 2014 of four (4) locations entering and exiting Hillside Lake confirmed otherwise. Two (2) of the samples and resulting test results were positive for human bacteroides or human e-coli. Infra-red photography conducted by the Town indicated several apparent sub-surface hotspots or plumes leading to Hillside Lake. In some cases, the hotspots were visible surface discharges. Further testing by the Town resulted in several samples testing positive for human bactreoides. It is anticipated that the NYSDEC will likely issue a "Proposed Final 2018 Section 303(d) List" during the 2018 calendar year.

Comment:

Mr. DeMaso discussed an email forwarded by him to members of the Town Board and numerous Town staff members in which he requested said email serve as his public comments on the Town of East

Fishkill SWMP Annual Report. Mr. DeMaso questioned a comment by me at the previous Town Board meeting in which I stated I was in receipt of said email as he didn't send it to me. Mr. DeMaso then noted that I correctly stated that it was forwarded to me to be included as a "public comment" in the Town of East Fishkill SWMP Annual Report. Mr. DeMaso stated this office informed the Town Board that the response to Mr. DeMaso's public comments contained in his email will be included in the next years SWMP Annual Report as per NYSDEC protocol and MS4 Permit GP-0-15-003. Mr. DeMaso noted the end of the reporting period being March 9th of every calendar year. Mr. DeMaso inquired as to why the SWMP Annual Report is not available on that date, and why it was not available to the Town until the end of April.

Response:

Mr. DeMaso correctly noted that this office informed the Town Board that Mr. DeMaso's email was forwarded to this office for inclusion as public comments on the Town of East Fishkill SWMP Annual Report. Specific to Mr. DeMaso's comment on why a MS4 SWMP Annual Report cannot be provided on the day of the end of the reporting period (March 9th), there are various reasons. The SWMP Annual Report is not due into the Town (MS4) on March 9th. The MS4 reporting period for SWMP Annual Reports are from March 10th through March 9th of every calendar year. The NYSDEC requires the MS4 to submit the SWMP Annual Report to the Department by June 1st of every calendar year. The NYSDEC understands that documentation must be compiled throughout the entire calendar year up until the "very last day" of the reporting period for inclusion into the MS4 SWMP Annual Report, thus the June 1st deadline for submission to the Department. To further elaborate, the Town of East Fishkill is a member of the Dutchess County Regulated MS4 Coordination Committee, and entered into an Inter-Municipal Agreement (IMA) with fifteen (15) other regulated MS4s in Dutchess County to form said Committee in 2005. The Committee informally formed in 2002 as a means for all regulated MS4s in Dutchess County to work in a collaborative effort in complying with the Phase II Stormwater Regulations to become The NYSDEC recognizes the Dutchess County Regulated MS4 Coordination Committee statewide as effective group of municipalities assisting all regulated MS4s in Dutchess County to fully implement all six (6) Minimum Control Measures (MCMs) contained within a SWMP. During the course of every reporting period the Committee assists with these tasks in various means and methods. The Committee meets once a month on the second Wednesday of every month. Every reporting period the Committee releases a Committee Annual Report documenting all collaborative efforts under all six (6) MCMs of the MS4 SWMP. Said Annual Report is distributed to the Committee members at the March Committee meeting providing documentation for inclusion into each regulated MS4s SWMP Annual Report. In addition, at the April meeting of the Committee, also being the second Wednesday of the month, additional information, documentation and discussion is provided to the Committee members for inclusion into their respective regulated MS4s SWMP Annual Reports. Also, to provide Town specific documentation into a SWMP Annual Report, the SWMP Coordinator meets with the Town Highway Department, Town Building Department, Town Planning Department, etc. to review records for the calendar year reporting period. Therefore, it is impossible to have a completed SWMP Annual Report into a Town (MS4) on the day of the end of the reporting period. As noted herein, the NYSDEC understands a time frame of approximately ten (10) weeks is required to have completed a SWMP Annual Report for a given reporting period, and to have conducted a public meeting prior to the June 1st submission deadline. This is also the reason public comments on a SWMP Annual Report are to be addressed in the following years SWMP Annual Report.

Comment:

Mr. DeMaso noted a comment from Councilman Marinaro at the previous Town Board meeting inquiring about the inspection of outfalls and catch basins. Mr. DeMaso noted former Supervisor Hickman stated

outfalls should be inspection once every five (5) years. Mr. DeMaso referenced two (2) memorandums from the NYSDEC to the Town of East Fishkill. Mr. DeMaso read directly from a March 21, 2016 memorandum from the NYSDEC to the Town stating, "Catch basins located in the priority areas (i.g. 303 (d) listed water-Hillside Lake) are maintained yearly. It is recommended that the catch basins in the priority area be cleaned more frequently. The frequency of the catch basins maintenance in Hillside Lake needs to be included to the SWMP and the copy of the maintenance plan should be submitted to this Department". Mr. DeMaso stated he called the Department in October 2016 and stated the Department informed him they were not in receipt of any response from the Town to the March 21, 2016 memorandum. Mr. DeMaso also discussed that the Town Board and the Town Engineer plans to facilitate a study into the stormwater discharge into Hillside Lake. Mr. DeMaso and former Supervisor Hickman further discussed Mr. DeMaso's email. Mr. DeMaso additionally stated he had attached photographs to his email taken during three (3) rainfall events and had inquired with the Town of East Fishkill SMO as to the status of his complaints.

Response:

As per NYSDEC MS4 Permit GP-0-15-003 and previous amendments of said permit, being 2003, 2008, 2010 and 2015 respectively, the MS4 is required to conduct an inspection of all mapped outfalls within the MS4. The frequency requirement is to inspect all mapped outfalls within a five (5) year time frame, or 20% of all mapped outfalls per year for compliance with the permit requirements. With regard to all Town catch basins, the frequency requirement is to have all Town catch basins inspected and cleaned within a five (5) year time frame, or 20% of all catch basins inspected and cleaned per year for compliance with the permit requirements. As noted herein, the NYSDEC and the EPA designated Hillside Lake as a 303 (d) impaired waterbody. The Town of East Fishkill is the governmental agency that designated Hillside Lake as a priority area of concern and a waterbody of concern in their SWMP Plan. The Town cleans one-hundred (100) percent of the catch basins in the Hillside Lake watershed per year, being well above and beyond the permit requirements. Additionally, based upon inspections by the Stormwater Management Officer (SMO), the Town Highway Department, or residential complaints; the Town Highway Department will clean some catch basins in the Hillside Lake watershed more frequently than once per year if warranted. Said Maintenance Plan and catch basin cleaning logs are in fact included in the Towns SWMP Plan. With regard to the March 21, 2016 memorandum from the NYSDEC, please see the attached response from the Town in the April 14, 2016 memorandum from this office to the Department. This office is not aware to whom Mr. DeMaso spoke with at the Department in October 2016, however whomever Mr. DeMaso spoke with provided Mr. DeMaso with incorrect information as a response was provided to the Department. Hillside Lake remains a priority area of concern and a waterbody of concern to the Town as part of the Towns SWMP Plan, and the Town will continue to explore all avenues to address the discharge of any sedimentation or other illicit discharge into Hillside Lake from the Towns conveyance system. This will include, but shall not be limited to measures to address the discharge of sediment from private properties into the Towns conveyance system by means of enforcement of the Towns Illicit Discharge Detection and Elimination (IDDE) ordinance. Specific to Mr. DeMaso's discussion of the contents of his email with former Supervisor Hickman, and Mr. DeMaso's discussion with the Town SMO please see the response to same under Mr. DeMaso's written comments.

Mr. Michael Wahlers:

Comment:

Mr. Wahlers requested of former Supervisor Hickman that Mr. Artus respond to Mr. DeMaso's presentation. Former Supervisor Hickman informed Mr. Wahlers that Mr. Artus is not here to speak this evening and that Mr. Artus is here for the resolution authorizing him to endorse the Municipal Compliance

Certification (MCC) in the Town of East Fishkill SWMP Annual Report. Former Supervisor Hickman additionally informed Mr. Wahlers that the Town could have Mr. Artus back for a discussion if desired. An additional back and forth discussion ensued between Mr. Wahlers and former Supervisor Hickman on matters related to Hillside Lake, but unrelated to the Towns MS4 SWMP Annual Report and/or SWMP Plan.

Response:

The purpose of the requirement that a public meeting be conducted on the MS4 SWMP Annual Report is to solicit comments from the public, and to provide a written response to said comments for inclusion in the following years SWMP Annual Report.

Town Board Meeting Comments:

Town Board Meeting

Take Public Comments on General Town Issues:

May 25, 2017

Mr. Michael Wahlers:

Comment:

Mr. Wahlers inquired about the removal of sediment in Hillside Lake.

Response:

Mr. Scott Bryant, Town Engineer informed Mr. Wahlers that the Town is looking into the permitting process for this.

Mr. Keith DeMaso:

Mr. DeMaso discussed a pending Town grant to treat stormwater runoff and not the lake itself. Mr. DeMaso further discussed with former Supervisor Hickman the designation of Hillside Lake as a 303 (d) listed waterbody and his disagreement with the source of the pollutant (phosphorus) being generated by failing WTSs as referenced by the NYSDEC. Mr. DeMaso stated that coliform was found in stormwater basins.

Response:

Mr. Scott Bryant, Town Engineer informed Mr. DeMaso that the Town conducted testing a few years ago regarding catch basins around Hillside Lake and there was a seasonal issue relative to human bacteroide. Mr. Bryant stated the tests differentiated between human waste and animal waste. Mr. Bryant stated some basins had animal waste and human waste was identified also. Mr. Bryant stated the Town had tested again and that the tests had come back negative for human waste. Mr. Bryant again stated it appears to be a seasonal issue.

As noted herein, test results exist of failing septic systems performed by the Town of East Fishkill in February 2014 of four (4) locations entering and exiting Hillside Lake. Two (2) of the samples and resulting test results were positive for human bacteroides or human e-coli at the date and time of the sampling.

Walter Artus

From: Rick Croniser < croniserr@eastfishkillny.org>

Sent: Thursday, May 11, 2017 7:33 AM

To: 'Walter Artus'

Subject: FW: 2017 MS4 & Hillside Lake &

Attachments: 20160506_131246May 6 2016.jpg; 20160506_131257May 6 2016.jpg; 20160506_

131303May 6 2016.jpg; 20160506_131443May 6 2016.jpg; 20160506_131457May 6 2016.jpg; 20160506_131505May 6 2016.jpg; 20160506_131603May 6 2016.jpg; 20160506_131612May 6 2016.jpg; 20160707_132832July 7 2016.jpg; 20160707_132911July 7 2016.jpg; 20160707_132926July 7 2016.jpg; 20160707_133046July 7 2016.jpg; 20160707_133101July 7 2016.jpg; 20160707_133243July 7 2016.jpg; 20160707_133256July 7 2016.jpg; 20160707_133312July 7 2016.jpg; 20160707_133503July 7 2016.jpg; 20160707_133539July 7 2016.jpg; 20170505_124413May 5 2017.jpg; 20170505_124434May 5 2017.jpg; 20170505_124635May 5 2017.jpg; 303(d) NYSDEC DIRECTIVE.pdf; REMOVAL OF THE

SEDIMENT.pdf

From: Keith DiMaso [mailto:Mrnaturl@Optonline.net]

Sent: Wednesday, May 10, 2017 6:16 PM

To: Tom Wood; Tom Franco; Scott Bryant; Rick Witt; Rick Croniser (MS4); Peter Cassidy; Nicholas D'Alessandro; John

Hickman; Emanuele Marinaro; Carol Hurray; Bill McClellan

Cc: Hillsidelake Board

Subject: 2017 MS4 & Hillside Lake &

To All,

On Friday May 05, 2017 we experienced a local rainstorm. Prior to the unanticipated need for a Hillside Lake (H.L.) valve to be opened (for the second time within one month [and a day]), I became aware of the increase of storm water and sediment along with it, discharging into H.L. At approximately 12:45 PM that day, I called the Town of E. Fishkill, MS4 Stormwater Management Officer (SMO)Rick Croniser. I asked if he would take a look at two specific locations with storm water entering H.L. (817 n. Hillside Rd. & F/O 744 E. Hillside Rd.).

I awaited a call back since 5/05 and I decided to call him today (5/10/2017). After two of my attempts, I did receive a call back. Today in my telephone conversation with him, he assures me he did take a look and asked me "what do you want me to do?".

I am appalled, the town of E. Fishkill SMO did not know what a 303(d) Impaired Waterbody is. I do not mean this in a condescending manor but, how does one manage an "Automatic MS4 Regulated" municipality if one is not even educated in the law *NYSDEC GP*-0-15-001.

Perhaps ANY of you [subordinates] other than the town supervisor, have ever seen the doc attached "303(d) NYSDEC DIRECTIVE"? This is NOT the first **IGNORED** NYSDEC directive[see attached "REMOVAL OF THE SEDIMENT"](that NEVER happened). Today I asked the MS4 SMO if he filed a report of my complaint **[ILLICIT DICHARGE]** of May 05, 2017 and July 07, 2016. HE DIDN'T KNOW WHAT I WAS TALKING ABOUT.

I would like this email to serve as my formal "Public Comment" for the Annual MS4 Report due on June 01, 2017 to NYSDEC. Keith DiMaso

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Region 3 100 Hillside Avenue, Suite IW. White Plains, NY 10603 1-10141-4-78-2505 (F-7814) 426-0503

March 21, 2016

John Hickman, Town Supervisor Town of East Fishkill Town Hall 330 Route 376 Hopewell Junction, NY 12533

Re: Municipal Separate Storm Water System (MS-4) Audit

SPDES No: GP-0-15-003

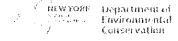
Town of East Fishkill, Dutchess County

Dear Mr. Hickman:

The Department of Environmental Conservation (DEC) conducted an audit of the Town's Municipal Separate Storm Sewer Systems (MS4s) on February 10, 2016. The purpose of the program evaluation was to determine the Town's compliance with the terms of their State Pollutant Discharge Elimination System (SPDES) MS-4 permit and to evaluate the current implementation status of the Town's storm water management program. Please refer to the attached inspection report form for more detailed information.

During the audit the following deficiencies were noted and must be corrected immediately:

- The Town is required to track the disseminated materials and the participants for each of the participatory or stewardship activities.
- The Town maintains documents for complaints regarding individual illicit discharges. It is recommended that the Town create a complaint form for illicit discharges and a keep separate inventory for the complaints for illicit discharges.
- It is recommended that the Town maintains a separate spreadsheet for all SWPPP reviews and construction site inspections.
- The Town has documented catch basins cleaning and street sweeping records. It is recommended that the Town maintain a written road maintenance plan.
- The Town's Highway Garage is required to maintain an inspection check list. It is recommended that the Highway Garage maintain a separate



inventory for inspection records for Stormwater pollution Prevention and Good Housekeeping Practices of the Highway Garage.

 The Town is required to maintain the in-house training records for Highway Maintenance staff.

During the audit the catch basins located in the Highway garage were full of sediments. There was a trace oil sheen which disappeared before reaching to a man made pond located near the entrance to the Highway Garage. The Town is required to implement the Stormwater Pollution Prevention and Good Housekeeping Practices for Highway Garage. Please submit documentation of routine inspections (reports) for Stormwater Pollution Prevention in the Highway Garage and the training records in relation to Stormwater Pollution Prevention and Good Housekeeping Practices for all maintenance staffs in the garage.

Catch basins located in the priority areas (i.g.303 (d) listed water-Hillside Lake) are maintained yearly. It is recommended that the catch basins in the priority area be cleaned more frequently. The frequency of the catch basins maintenance in Hillside Lake area needs to be included to the SWMP and the copy of the maintenance plan should be submitted to this Department.

Please address the deficiencies listed above and submit a response to this Department no later than April 30, 2016. If you have questions or comments, I can be reached at 914 428-2505, ext. 362.

Sincerely.

Aparna Roy

Environmental Engineer

ecc: Shohreh Karimipour, P.E., Division of Water, NYSDEC
William McClennan, Stormwater Management Officer, Town of East Fishkill
Walter R. Artus, Stormwater Management Program Coordinator

April 14, 2016

Ms. Aparna Roy, Environmental Engineer
New York State Department of Environmental Conservation
Division of Water, Region 3
100 Hillside Avenue
Suite 1W
White Plains, New York 10603-2860

Re: Town of East Fishkill Audit & Evaluation

Dear Ms. Roy:

We are in receipt of your memorandum dated March 21, 2016 specific to the Audit and Evaluation of the Town of East Fishkill's SWMP conducted on February 10, 2016 by the Department. As per your request, please find below a point by point response to your comments:

• Comment: The Town is required to track the disseminated materials and the participants for each of the participatory or stewardship activities.

Response: A tracking list of all educational materials and brochures disseminated for consecutive reporting periods for MM1 was available at the audit and was contained within the SWMP Plan binder. Please find attached a copy of the list of all educational materials and brochures disseminated for the last reporting period from the date of the audit and evaluation being March 10, 2014 through March 9, 2015. This information and documentation was also provided for the past five (5) reporting periods of which were also contained within the SWMP Plan binder available at the audit.

Specific to participatory and/or stewardship activities (MM2), prior to the preparation of Annual Reports, the Dutchess County Regulated MS4 Coordination Committee devotes their March and April monthly meetings every calendar year for purposes of determining the number of participants in various events, some of which is approximated without the benefit of attendance sheets. Due to this approximation, this office has always provided a more conservative number of participants in various events for inclusion into an Annual Report. For the past twelve (12) years from the conception of the MS4 permit in 2003 to date, this collaborative effort by the Committee for MM2 has been accepted by the Department based upon numerous discussions with the Department and the Committee for the benefit of the individual MS4. Some of this information and documentation is contained within the Annual Report prepared by the Dutchess County Soil and Water Conservation District (DCSWCD) on behalf of the Committee that was included in the SWMP Plan binder at the audit (Please find attached). Copies of the past five (5) reporting periods DCSWCD Annual Reports were also included in the SWMP Plan binder at the audit. In addition, an attendance sheet of all monthly Committee meetings is retained electronically.

In the future, the Town of East Fishkill will provide for a means of documentation at any Town specific activity that may be relative to its SWMP, i.e. Earth Day, Community Day, public meetings, etc. for purposes of documenting participatory and/or additional stewardship activities for MM2. It is also noted that the Town's website contains a vast amount of public educational materials specific to its SWMP, and more specifically to MM1 and MM2.

Comment: The Town maintains documents for complaints regarding individual illicit discharges. It is recommended that the Town create a complaint form for illicit discharges and keep a separate inventory for complaints for illicit discharges.

Response: The Town of East Fishkill does have an Illicit Discharge Complaint Form. It was available at the audit and was contained within the SWMP Plan binder. Please find attached a copy of the Town of East Fishkill Illicit Discharge Complaint Form. It is also available on the Town website should a resident of the Town desire to complete a form and submit it to the Town. A laptop was also provided at the audit for purposes of providing the Department with access to the Town of East Fishkill website during its audit and evaluation of the Town. To date, no confirmed illicit discharges were reported to the Town by Town residents.

 Comment: It is recommended that the Town maintains a separate spreadsheet for all SWPPP reviews and construction site inspections.

Response: The Town maintains and retains all SWPPP comment review memorandums and SWPPP Compliance Inspection Reports/Environmental Monitor Inspection Reports electronically by project and by date. Given the extensive number of weekly and bi-weekly SWPPP Compliance Inspection Reports/Environmental Monitor Inspection Reports conducted by the Town, a laptop and disc was provided at the audit containing all SWPPP Compliance Inspection Reports/Environmental Monitor Inspection Reports from the previous reporting period to date for review of content. Additionally, all SWPPP comment review memorandums from the previous reporting period to date were printed out and provided at the audit for review of content. maintaining these reports and memorandums electronically by project and date, the Town can easily access and determine the number of SWPPP comment review memorandums and SWPPP Compliance Inspection Reports/Environmental Monitor Inspection Reports for any given time frame and/or project. The total number of SWPPP reviews and SWPPP Compliance Inspection Reports/Environmental Monitor Inspection Reports were provided at the audit for the previous ten (10) reporting periods. (Please find attached) The Town also maintains a separate binder containing all MS4 SWPPP Acceptance Forms in chronological order of approval of which was also provided at the audit.

• Comment: The Town has documented catch basin cleaning and street sweeping records. It is recommended that the Town maintain a written road maintenance plan.

Response: The Town does have a written road maintenance plan which is contained in the SWMP Plan binder and which was available at the audit. Please find attached a copy of the Town of East Fishkill Highway Department Road Maintenance Plan. It is also noted said plan was reviewed by the Department during an Audit and Evaluation of the Town of East Fishkill's SWMP in 2010, and it was found to be acceptable to the Department.

 Comment: The Town's Highway Garage is required to maintain an inspection checklist. It is recommended that the Town Highway Garage maintain a separate inventory for inspection records for Stormwater and Pollution Prevention and Good Housekeeping Practices of the Highway Garage.

Response: The Town does have an inspection checklist and facility inventory worksheet contained within a manual entitled "Pollution Prevention and Good Housekeeping for Municipal Operations". The manual is contained within the SWMP Plan binder and was available at the audit. (Please find attached).

However, it is duly noted that there are no completed checklists/worksheets that were found from the previous Highway Superintendent's tenure which terminated January 2016. As per consultation with the newly elected Highway Superintendent, inspections of Highway Department facilities will be conducted and maintained on a quarterly basis in the future in accordance with said manual.

Comment: During the audit the catch basins located in the Highway garage were full of sediments. There was a trace of sheen which disappeared before reaching to a man-made pond located near the entrance to the Highway garage. The Town is required to implement the Stormwater Pollution Prevention and Good Housekeeping Practices for Highway garage. Please submit documentation of routine inspections (reports) for Stormwater Pollution Prevention in the Highway garage and the training records in relation to Stormwater Pollution Prevention and Good Housekeeping Practices for all maintenance staff in the garage.

Response: On the date of the audit, approximately two (2) inches of snowfall occurred during the morning hours. Snow melt during the day accumulated in the catch basin(s) at the Highway Department facilities. It is noted that the catch basin(s) contain two (2) foot sumps and there was no discharge of sediment offsite from the Highway Department facility. The catch basins were cleaned in the days following the audit and minimal sediment was found to be settled in the sump(s). As noted herein, there are no completed checklists/worksheets that were found from the previous Highway Superintendent's tenure; however this will be conducted on a quarterly basis in the future. Specific to training of Highway Department staff, a training video entitled "Illicit Discharges" was provided to the Highway Department in 2013 for its staff and employees to view. No attendance sheet can be located for confirmation. Therefore, based upon consultation with the Town Supervisor and the Town Highway Superintendent, this office will be conducting a training session to all Highway Department staff and employees in the near future specific to "Pollution Prevention and Good Housekeeping for Municipal Operations". An attendance sheet will be provided and maintained for our records.

Comment: Catch basins located in the priority areas (i.g.303 (d) listed water-Hillside Lake) are maintained yearly. It is recommended that the catch basins in the priority area be cleaned more frequently. The frequency of the catch basin maintenance in Hillside Lake area needs to be included in the SWMP and the copy of the maintenance plan should be submitted to this Department.

Response: As noted to you during the audit, and as additionally noted in the SWMP Plan binder and the NYSDEC Audit Report Form, the Town of East Fishkill has designated the Hillside Lake watershed as a geographic area of concern and a waterbody of concern. Given such, the past two (2) annual reporting periods, the Town of East Fishkill Highway Department has cleaned 100% of the catch basins in the Hillside Lake watershed. This documentation is contained in the catch basin cleaning log maintained by the Highway Department which was available at the audit. It is the opinion of this office and the Town Highway Superintendent based upon the amount

(cubic yards) of spoils removed from the catch basins in the Hillside Lake watershed during the most recent round of catch basin cleaning, multiple cleaning of catch basins per year in the Hillside Lake watershed is not warranted or feasible due to budgetary constraints. However it is noted given the designation of Hillside Lake as a geographic area and waterbody of concern in the Town of East Fishkill SWMP Plan, routine inspections are conducted throughout the year of catch basins and outfalls in the Hillside Lake watershed. Repairs and/or cleaning of the conveyance system in the Hillside Lake watershed are also conducted on an as needed basis when warranted. Therefore, it is in this respect it is our opinion based upon previous discussions with the Department and the permit requirements that the Town of East Fishkill is meeting and exceeding its obligation as a regulated MS4 specific to catch basin inspection and cleaning, conveyance system inspection and cleaning, outfall inspections, etc. in the Hillside Lake watershed. In addition, extensive documentation specific to Hillside Lake may be found on the Town of East Fishkill website which is also updated on a regular basis.

As noted herein, various documentation and information deemed as a deficiency in your memorandum dated March 21, 2016 was in fact available at the audit and contained within the SWMP Plan binder, provided in an electronic format and/or on the Town website in which a laptop was also available at the audit for purposes of review. All of this documentation is attached in response to your memorandum dated March 21, 2016.

Please feel free to contact me if you have any questions, concerns or require any additional information. I may be contacted directly at (845) 462-0022 or via email at <u>w.artus@verizon.net</u>.

Sincerely,

Walter R. Artus, CPESC, CPMSM Principal

Enclosures:

Town of East Fishkill Stormwater Educational Brochure Distribution 2014/2015 DCSWCD MS4 Communities Phase II Stormwater Assistance in Year 12 Town of East Fishkill Illicit Discharge Report Form Town of East Fishkill SWPPP Compliance Inspections
Town of East Fishkill Highway Department Road Maintenance Plan Pollution Prevention and Good Housekeeping for Municipal Operations

cc: John Hickman, Town Supervisor
William McClennan, Town Highway Superintendent, Stormwater Management Officer
Shohreh Karimipour, P.E., Division of Water, NYSDEC

Walter Artus

From: Walter Artus <w.artus@verizon.net>
Sent: Saturday, April 16, 2016 11:28 AM

To: 'Roy, Aparna (DEC)'; 'hickmanj@eastfishkillny.org'

Cc: 'mcclellanb@eastfishkillny.org'; 'Karimipour, Shohreh (DEC)'

Subject: RE: Town of East Fishkill MS4 Audit

Attachments: Town of East Fishkill Response to NYSDEC MS4 Audit and Evaulation 2016.pdf; East

Fishkill MS4 Stormwater Brochure Distribution 2015.docx; DCSWCD MS4 Communities Phase II Stormwater Assistance in Year 12.pdf; Town of East Fishkill Illicit Discharge Report Form.pdf; TOWN OF EAST FISHKILL SWPPP COMPLIANCE INSPECTIONS.docx; TOWN OF EAST FISHKILL HIGHWAY DEPT ROAD MAINTENANCE PLAN.docx; Pollution

Prevention Manual.pdf

Aparna:

As per your request, please find attached a memorandum in response to your memorandum dated March 21, 2016 regarding the Town of East Fishkill Audit and Evaluation conducted by the Department on February 10, 2016.

Also please find attached numerous documents as referenced in my response to your memorandum.

Hard copies will be forwarded to you via Priority Mail.

Thank you.

Walter

Walter R. Artus, CPESC, CPMSM

Stormwater Management Consultants, Inc.

P.O. Box 202

LaGrangeville, New York 12540

Phone: 845-462-0022 Fax: 845-462-0033 Cell: 845-489-5315 w.artus@verizon.net

From: Roy, Aparna (DEC) [mailto:aparna.roy@dec.ny.gov]

Sent: Monday, March 21, 2016 3:45 PM

To: hickmanj@eastfishkillny.org

Cc: mcclellanb@eastfishkillny.org; Karimipour, Shohreh (DEC); w.artus@verizon.net

Subject: Town of East Fishkill MS4 Audit

Please see the attached report.

A hard copy will follow.

Thanks
Aparna Roy
Environmental Engineer
NYS Department of Environmental Conservation
Region 3, Division of Water
100 Hillside Avenue, Suite 1W

New York State Department of Environmental Conservation Division of Water, Region 3

100 Hillside Avenue - Suite 1W, White Plains, New York 10603-2860

Phone: (914) 428-2505 • Fax: (914) 428-0323

Website: www.dec.ny.gov



April 28, 2014

Supervisor and Town Board Town of East Fishkill 330 Route 376 Hopewell Junction, NY 12533

Re: Hillside Lake- Minimum Measure VI and EPA guidelines

Town of East Fishkill, NY

Dear Supervisor and Town Board:

As a result of a compliant of discharge of sediment to Hillside Lake, an inspection of the Town of East Fishkill's stormwater conveyance system was done of the area on April 4, 2014. Please refer to the attached photos.

At the time of inspection, outfalls were observed with significant sediment deposition, indicating the MS4 collection system, drainage area and gravel road were not being maintained to minimize sedimentation to the Lake in accordance with Minimum Measure VI of GP-0-10-002 and EPA guidelines for the maintenance of gravel roads.

Please submit to the Department's attention an Assessment and Remediation plan for the MS4 outfalls discharging to Hillside lake by June 1%. The Assessment and Remediation plan must include a schedule for the removal of the sediment deposition at the outfalls and a plan for the maintenance of the stormwater collection system.

If you have any questions, I can be reached at the above phone number, extension 316.

Sincerely,

January January

Jennifer Zunino-Smith Stormwater Specialist

cc: Patrick Ferracane, NYSDEC, Division of Water Bill McClellan, Town of East Fishkill SMO

July 9. 2014

Ms. Natalie Browne, Environmental Program Specialist New York State Department of Environmental Conservation Division of Water, Region 3 100 Hillside Avenue Suite 1W White Plains, New York 10603-2860

Re: Town of East Fishkill Hillside Lake Assessment & Remediation NOI No. NYR20A183

Dear Ms. Browne:

In response a memorandum from your department dated April 28, 2014 regarding sediment deposition in outfalls and the conveyance system located in the Hillside Lake watershed and the request for an Assessment and Remediation Plan, this office has conducted two (2) site inspections. One site inspection was conducted with the Town Engineer and a Town Councilman on June 12, 2014 and the other site inspection was conducted on July 1, 2014 with the Town Engineer.

Relative to the memorandum from your department dated April 28, 2014, three (3) photographs were attached labeled as noted below, in which I offer the following assessment and remediation efforts on behalf of the Town of East Fishkill:

1. <u>James Dorland Drive</u>: This photograph depicts an inlet located in the proximity of the James Dorland Drive cul-de-sac and the East End Road cul-de-sac. Based upon a site inspection conducted on June 12, 2014, it was observed that two (2) property owners; or previous property owners constructed a diversion swale at some undetermined point in time in an effort to divert runoff from a hillside located in the rear of their respective properties. The diversion swale was constructed commencing on 21 James Dorland Drive and running in a southeasterly direction to the property line of 23 James Dorland Drive. At the southeasterly property line of 23 James Dorland Drive the swale then makes a ninety (90) degree turn down a steep slope resulting in severe gully erosion.

This runoff ultimately discharges onto the right of way of the James Dorland Drive cul-de-sac and the right of way of the East End Road cul-de-sac. During significant rainfall events the sediment accumulates in the above noted locations, and in the area of the attached photograph. It is noted that the channelized runoff has been directed and diverted to the Hillside Lake watershed. As a result of the site inspection conducted on June 12, 2014 as noted herein, this office prepared a memorandum to the Town offering my assessment of my observations to include various options to remedy the issue. A meeting was conducted on July 3, 2014 by this office and the Town Engineer, two (2) Town Councilmen and the Town Attorney to discuss the various options. As a result of said meeting, the Town is exploring two (2) options. One option is determining the feasibility of obtaining drainage easements to divert the runoff in a northwesterly direction into a Town conveyance system and out of the Hillside Lake watershed. Another option being entertained is filling in the diversion swale running through 21 James Dorland Drive and 23 James Dorland Drive, thus allowing sheet runoff to occur as it previously occurred prior to the construction of the diversion swale. In this option, the Town would also install a check dam(s) in the area of the gully erosion and perform regularly scheduled inspections to include inspections after significant rainfall events by the Town of East Fishkill Highway Department to remove any accumulation of sediment trapped by the check dam(s). Relative to a time frame or a schedule to remediate this issue, if the latter option is chosen, this matter could be resolved in relatively short order. If it is feasible to divert the runoff in a northwesterly direction into the Town conveyance system outside of the Hillside Lake watershed as noted above, drainage easements would have to be secured and this could be a lengthy process. The Town is committed to resolving this issue to eliminate the deposition of sediment into the Hillside Lake watershed. Additional meetings are being scheduled in the near future in a concerted effort to remediate this issue between the Town and the property owners.

- 2. No outlet noticed on opposite side (N. Hillside Rd. near N. Mission Rd.: This photograph depicts an inlet located on North Hillside Lake Road. Runoff is conveyed to this inlet via a shallow grass-lined swale with a grass lawn area on either side. The outlet was located and inspected at a site inspection conducted by this office on July 1, 2014. No accumulation of sediment was observed at the inlet or outlet of this pipe. Therefore, it is the opinion of this office that no remediation efforts in this location are required other than routine inspections and/or maintenance by the Town of East Fishkill Highway Department.
- 3. <u>Buried Outfall (E. Hillside Lake Rd. between Sunset Drive & North Hillside Lake Rd.</u>: This photograph depicts a buried outfall not previously located on the entire

Town of East Fishkill Outfall Mapping conducted and mapped in 2007. At the July 1, 2014 site inspection it was observed that runoff is being discharged at this outfall by mean of a pipe directly across the road. The pipe is located at the base of a hill and sediment appears to run off steep banks of adjacent property owners directly onto the paved road, and ultimately to the low point in which the pipe conveys runoff to the outfall. Based upon consultation with the Town of East Fishkill, at the location of the inlet pipe there was previously a hole that had grown in size along the shoulder of the road. A grate was placed over the hole for safety concerns. To remediate the deposition of sediment at the location of the outfall, the Town of East Fishkill Highway Department will install a drainage structure (catch basin) to include a deep sump to replace the grate over the hole. It is anticipated this drainage structure will be installed this summer. The Town of East Highway Department will conduct routine inspections and/or maintenance to include the removal of sediment from the drainage structure as warranted. Additionally, the outfall will be inspected on a regularly scheduled basis and any sediment deposition observed will be removed accordingly.

Based upon site observations of the three (3) issues of concern as noted in the attached photographs to the memorandum from your department dated April 28, 2014, the deposition of sediment was observed in two (2) of the three (3) locations. In neither case was the cause of the sediment deposition due to inadequate maintenance of dirt or gravel roads. All locations were along paved road systems with the discharge of sediment being generated from residential properties.

In general terms, in accordance with NYSDEC SPDES MS4 Permit GP-0-10-002, the Town of East Fishkill Stormwater Management Program (SWMP), and as per the Town of East Fishkill Highway Department Road Maintenance Plan (see attached), the Town has an ongoing catch basin inspection and maintenance schedule, and an ongoing dry-weather outfall inspection and maintenance schedule in place.

It is additionally noted that one-hundred nineteen (119) catch basins were cleaned and inspected in the Hillside Lake watershed in April 2014. There are nine (9) outfalls that discharge to Hillside Lake. Said outfalls will be prioritized for dry-weather and/or random inspections and maintenance as warranted.

Please feel free to contact me if you have any questions, concerns or require any additional information. I may be contacted directly at (845) 462-0022.

Sincerely,

Walter R. Artus, CPESC, CMS4S

Principal

cc: John Hickman, Supervisor Scott Bryant, P.E., Town Engineer William McClellan, Stormwater Management Officer

Stormwater Management Consultants, Inc.

July 1, 2014

Mr. Scott Bryant, P.E., Town Engineer Town of East Fishkill 330 Route 376 Hopewell Junction, New York 12533

Re: 21 and 23 James Dorland Drive Town of East Fishkill

Dear Mr. Bryant:

On June 12, 2014 a site inspection was conducted on James Dorland Drive by this office, yourself, Councilman Marinaro and the homeowner of 21 James Dorland Drive, Mr. Andrew Kristan. The purpose of said site inspection was to observe existing conditions that have resulted in the deposition of sediment into the Town right-of-way and the Town conveyance system located on James Dorland Drive and East End Road.

Based upon my observations at the June 12, 2014 site inspection, the rear portions of 21 James Dorland Drive and 23 James Dorland Drive (aka Lot #'s 19 and 20 respectively on a map entitled "Chase Hills Section 2", Filed Map No. 5003, filed in the Dutchess Clerk's Office on November 3, 1976) contain wooded steep slopes in a northeasterly direction to a point of a gently sloping "shelf" of approximately forty (40) feet in length extending to their rear property lines. From the rear property line of both properties, the topography again slopes steeply up in a northeasterly direction to the rear yards of an adjoining subdivision with a heavily wooded area separating the two (2) subdivisions.

At some undetermined point in time, the property owners, or previous property owners of 21 James Dorland Drive and 23 Dorland Drive constructed a diversion swale along the "shelf". The diversion swale commences approximately forty (40) feet from the northerly property corner of 21 James Dorland Drive then runs parallel with the rear property lines along the "shelf" to a point on the southeasterly property line of 23 James Dorland Drive.

The diversion swale is approximately two-hundred (200) feet in length. The diversion swale then attempts to make a ninety (90) degree turn running in a southwesterly direction along the property line of 23 James Dorland Drive, ultimately discharging onto the right-of-way of James Dorland Drive and East End Road and the Town conveyance system. It is noted that the runoff has been diverted and directed towards the cul-de-sac of James Dorland Drive, and subsequently to the Hillside Lake watershed.

At the point where the diversion swale takes a ninety (90) degree turn, severe gully erosion was observed, being at some points approximately six (6) to eight (8) feet in depth resulting in a significant amount of sediment deposition into the Town conveyance system.

It is the opinion and assessment of this office that in an attempt to divert runoff away from the rear of the residences of 21 James Dorland Drive and 23 James Dorland Drive, the property owners, or previous property owners of 21 James Dorland Drive and 23 James Dorland Drive altered the natural drainage flow of the existing topography without the benefit of implementing structural or non-structural Best Management Practices (BMPs). Runoff from rainfall events, and more specifically, significant rainfall events do not make a ninety degree turn contained within a swale without proper BMPs implemented. The result is ultimately what this office observed; severe gully erosion. The area of the contributing watershed combined with the steep slope of the topography also contributed to the severe gully erosion as sheet runoff was altered to a concentrated flow down a steep slope resulting in a high velocity channelized flow. The severe gully erosion observed likely occurred over an extended period of time. The assessment of the time frame is not only based upon my observations, but is also based upon review of aerial mapping from Dutchess County Parcel Access Mapping dated 2009, which clearing illustrates severe gully erosion at the ninety degree turn of the existing swale. However, unless remediation efforts are implemented, the gully erosion will continue to occur further compromising the steep slopes and resulting in more accumulation and deposition of sediment onto the right-of-way of James Dorland Drive and East End Road in addition to the Town conveyance system.

Relative to potential remediation measures to address the issue at hand, this office offers the following options:

- 1. Install a drainage structure at the point of the ninety degree turn of the swale with a stub pipe and stone rip-rap outlet protection. Reshape and straighten out the existing eroded swale with a side slope of 2:1 maximum. At the point of the ninety degree turn, raise the eroded swale to the elevation of the stub pipe to eliminate the depth and drastic drop in elevation. Line the entire side slopes and bottom of the swale with a minimum of 6" stone. Stone check dams would be placed at intervals to be determined to reduce the velocity of runoff down the steep slope. This measure would be expensive and involve extensive clearing of land, not only in an effort to straighten out the swale, but also for equipment and machinery to access the existing eroded swale. However, minimal maintenance would be required if this measure were implemented, and the likelihood of further erosion and deposition of sediment would also be minimized.
- 2. Reshape and straighten out the existing eroded swale with a side slope of 2:1 maximum. At the point of the ninety degree turn, raise the eroded swale to eliminate the depth and drastic drop in elevation. Line the side slopes and bottom of the swale with a minimum of 6" stone. Stone check dams would be placed at intervals to be determined to reduce the velocity of runoff down the steep slope. This measure would also be expensive and also involve extensive clearing of land, not only in an effort to straighten out the swale, but also for equipment and machinery to access the existing eroded swale. A minimal amount of maintenance would be required if this measure were implemented, and the likelihood of further erosion and deposition of sediment would also be minimized.
- 3. Line the bottom of the existing swale with a minimum of 6" stone without reshaping or straightening out the existing swale. Line a portion of the side slope to a height of approximately two (2) to three (3) feet from the bottom of the swale with a minimum of 6"

stone to minimize further erosion of the side slope. However, due to the existing severely eroded swale, this measure is not a guarantee that the exposed meandering side slopes of the swale would not be further compromised and eroded during significant rainfall events. Routine maintenance would be required to remove any accumulation of sediment within the swale.

4. Line the bottom of the existing swale with a minimum of 6" stone without reshaping or straightening out the existing swale. At approximately twenty (20) foot intervals, construct oversized check dams with a minimum of 12" stone. The check dams should be approximately four (4) to five (5) feet in width. It would also be recommended to provide a stub pipe at a size to be determined at the bottom of each check dam to allow some unimpeded flow of water to occur. As also noted in remediation measure #3 above, this measure is not a guarantee that the exposed meandering side slopes of the swale would not be further compromised and eroded during significant rainfall events. There is also a level of concern regarding this measure that the placement of the check dams could potentially overtop during significant rainfall events and send runoff around the existing swale, thus creating additional channelized flow(s) down the steep slope. Routine maintenance would be required to remove any accumulation of sediment within the swale and behind the stone check dams.

In conclusion, regardless of the assessment of the cause and nature of the discharge of sediment into the Town conveyance system, and potential recommended remediation measures noted above, the discharge of sediment into the MS4 is defined as an illicit discharge as per §156 of the Code of the Town of East Fishkill, "Storm Sewers" and should be addressed at the earliest date possible to the satisfaction of the Town.

Please feel free to contact me directly at 845-462-0022 if you have any questions or require any additional information.

Sincerely,

Walter R. Artus, CPESC, CMS4S

Principal



Town of East Fishkill

Dutchess County, New York

330 Route 376, Hopewell Junction, New York 12533 Telephone 845-742-2885, Fax 845-223-7170

Illicit Discharge Report Form

Please fill out this form if you wish to report pollution discharges (illicit discharges) such as:

- Intentional dumping of trash, yard waste, used motor oil & petroleum products, antifreeze, paint, solvents, pet waste, soaps, detergents, sewage, pesticides, herbicides, fertilizers, chemicals, swimming pool backwash or other pollutants into a storm drain, ditch, waterbody, watercourse or wetland.
- Any of the above pollutants discharging from an outfall pipe.
- Sanitary sewer overflows.
- Discharges of silt and/or sediment from construction sites into storm drains.
- Suspected illegal dumping sites.
- Any hazardous material or waste not listed above.

Suspected illicit discharge:					
Location:	····				
Date & Time:					
Other:					
Name:	710.000.000 TO TO TO TO TO TO TO TO TO TO TO TO TO				
Contact information:					

The information you provide is confidential. Your name and contact information will not be released.

Additional information may be obtained by review of the Town of East Fishkill Illicit Discharge Detection and Elimination ordinance, §156 of the Code of the Town of East Fishkill, "Storm Sewers".

Town of East Fishkill IDDE Hotline Incident Tracking Sheet							
Incident ID:							
Responder Information				***************************************			
Call taken by:		A Company of the Comp			Call date:	months of the second of the se	
Call time:				ŀ	Precipitation (inches) in pa	st 24-48 hrs:
Reporter Information							
Incident time:				1	Incident date:		
Caller contact information	(optional):						
Incident Location (co.	mplete one or more l	below)					
Latitude and longitude:	10000011101111111111111111111111111111		***************************************				
Stream address or outfall #	•						
Closest street address:							
Nearby landmark:						and the second s	
Primary Location Description	Secondary Location	on Descrip	otion:				
Stream corridor (In or adjacent to stream)	Outfall		☐ In	☐ In-stream flow		☐ Along banks	
Upland area (Land not adjacent to stream)	☐ Near storm drain et		ON etc.):	Near other water source (storm water pond, wetland, c.):			
Narrative description of lo	cation:			•			
Upland Problem Ind	icator Descriptio	n					
Dumping	1000 - 10	☐ Oil/solvents/chemicals ☐ Sewage					
☐ Wash water, suds, etc.		Other	*				
Stream Corridor Pro	blem Indicator	Descript	ion				
	☐ None		Sew	age	Ranci	d/Sour	Petroleum (gas)
Odor	Sulfide (rotten eggs); natural gas		Other: Describe		cribe in "Narr	ribe in "Narrative" section	
	"Normal"	☐ Oil sheer		sheen	en Cloudy		Suds
Appearance	Other: Describe in "Narrative" section						
m1	☐ None:	Sewage (toilet paper etc)		paper,	☐ Algae		Dead fish
Floatables	Other: Describe in "Narrative" section						
Narrative description of pr	oblem indicators:					***************************************	
Suspected Violator (name	, personal or vehicle	description	n, license	plate #	i, etc.):		

Investigation Notes				
Initial investigation date:	Investigators:			
☐ No investigation made	Reason:			
Referred to different department/agency:	Department/Agency:			
☐ Investigated: No action necessary				
☐ Investigated: Requires action	Description of actions:			
Hours between call and investigation:	Hours to close incident:			
Date case closed:				
Notes:				

TOWN OF EAST FISHKILL IDDE PROGRAM PROCEDURES

- 1. Determine Priority Outfalls
 - a. Evaluate Land Uses
 - b. Records of complaints
 - c. Areas with spill potential
 - d. Public resources at outfall and downstream (habitat, recreation, etc.)
 - e. 20% of mapped outfalls to be inspected on a yearly basis
- 2. Preparation for Field Inspections
 - a. Preliminary documentation research (mapping, records, etc.)
 - b. Necessary equipment preparation
 - c. Appropriate notifications (other jurisdictions, residential and/or commercial property owners)
 - d. Tool: Field visit inventory/standardized checklist (Town of East Fishkill Outfall Dry Weather Inspection Screening Field Sheet)
- 3. Reconnaissance/Access Safety Considerations
 - a. Confined space entry policy
 - b. Legal authority for right of access/entry
 - c. Standardized field safety protocol
- 4. Dry Weather Inspection Screening/Visual Field Inspections
 - a. Visual observations of outfalls/Water Bodies
 - b. Illicit connections screening/water quality sampling with acceptable methodology if warranted
 - Document visual findings on Town of East Fishkill Outfall Dry Weather Inspection Screening Field Sheet
- 5. Characterize the Nature of the Discharge
 - a. Identify common/likely discharges
 - b. Review lab/field tests if warranted
 - c. Evaluate if the discharge must be immediately contained and appropriate steps taken
 - d. If hazardous materials are suspected contact the Fire Department, Police Department, Public Works Department, NYSDEC, etc.

- 6. Trace the Source of the Discharge
 - a. Review Outfall & Sewer Shed mapping
 - b. Equipment inventory
 - c. Methodology (cameras, dye test, smoke test, remove catch basin grates, manhole covers, etc.
 - d. Documentation of determination of source of illicit discharge
- 7. Procedures for Reporting Illicit Connection/Discharge (subject to the Code of the Town of East Fishkill, "Illicit Discharges to Storm Sewers")
 - a. Notification of regulatory authorities if appropriate, i.e., Dutchess County Department of Health for septic failure and discharge into the MS4
 - b. Notification to property owner
 - c. Notification to any downstream jurisdiction with interconnected MS4.
 - d. Issue Order to Remedy or Notice of Violation with timeline for action in accordance with the Code of the Town of East Fishkill, "Illicit Discharges to Storm Sewers"
- 8. Procedures for Removing and Eliminating the Illicit Connection/Discharge (subject to the Code of the Town of East Fishkill, "Illicit Discharges to Storm Sewers")
 - a. Notification of regulatory authorities if appropriate, i.e., Dutchess County Department of Health for septic failure and discharge into the MS4.
 - b. Notification to property owner
 - c. Notification to any downstream jurisdiction with interconnected MS4.
 - d. Escalate enforcement procedures if warranted in accordance with the Code of the Town of East Fishkill, "Illicit Discharges to Storm Sewers"
 - e. Periodic follow-up inspections